

**U.S. ENVIRONMENTAL PROTECTION AGENCY  
NATIONAL AIR AND RADIATION ENVIRONMENTAL LABORATORY  
GAMMA ANALYSES**

**REPORT OF SAMPLE DELIVERY GROUP #0200037**

ORIGINAL

Project: NEUTRON PRODUCTS  
Analysis Procedure: Gamma Spectrometry  
Date Reported: 09/10/2002

**SAMPLES**

NAREL Sample #	Client Sample ID	Type	Matrix	Date Collected	Date Received
A2.03832M	NP #12	SAM	SOIL	08/15/2002	08/19/2002
A2.03833N	NP #13	SAM	SOIL	08/15/2002	08/19/2002
A2.03834P	NP #14	SAM	SOIL	08/15/2002	08/19/2002
A2.03835Q	NP #15	SAM	SOIL	08/15/2002	08/19/2002
A2.03836R	NP #16	SAM	SOIL	08/15/2002	08/19/2002
A2.03837T	NP #17	SAM	SOIL	08/15/2002	08/19/2002
A2.03838U	NP #18+	SAM	SOIL	08/15/2002	08/19/2002
A2.03839V	NP #19	SAM	SOIL	08/15/2002	08/19/2002
A2.03844R	BKG 03	SAM	SOIL	08/14/2002	08/19/2002
A2.03845T	BKG 04	SAM	SOIL	08/15/2002	08/19/2002

**EXCEPTIONS**

1. Packaging and Shipping - No problems were observed.
2. Documentation - No problems were observed.
3. Sample Preparation - No problems were encountered.
4. Analysis - No problems were encountered.
5. Holding Times - All holding times were met.

**QUALITY CONTROL**

1. QC samples - All QC analysis results met NAREL acceptance criteria.
2. Instruments - Response and background checks for all instruments used in these analyses met NAREL acceptance criteria.

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## CERTIFICATION

I certify that this data report complies with the terms and conditions of the Quality Assurance Project Plan, except as noted above. Release of the data contained in this report has been authorized by the Chief of the Monitoring and Analytical Services Branch and the NAREL Quality Assurance Coordinator, or their designees, as verified by the following signatures.

*for James B. Mony*

9/12/02

Mary F. Wisdom

Date

Quality Assurance Coordinator

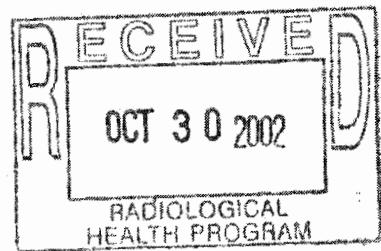
*Donya B. Hudson*

9/12/02

*for John Griggs, Ph.D.*

Date

Chief, Monitoring and Analytical Services Branch



## GENERAL INFORMATION

ORIGINAL

### SAMPLE TYPES

BLD	Blind sample
FBK	Field blank
SAM	Normal sample

### ANALYSIS QC TYPES

ANA	Normal analysis
DUP	Laboratory duplicate
LCS	Laboratory control sample (blank spike)
MS	Matrix spike
MSD	Matrix spike duplicate
RBK	Reagent blank

### QUALITY INDICATORS

RPD	Relative Percent Difference
%R	Percent Recovery
Z	Number of standard deviations by which a QC measurement differs from the expected value

### EVALUATION OF QC ANALYSES

A reagent blank result is considered unacceptable if it is more than 3 standard deviations below zero or more than 3 standard deviations above a predetermined upper control limit. For some analyses NAREL has set the upper control limit at zero. For others the control limit is a small positive number.

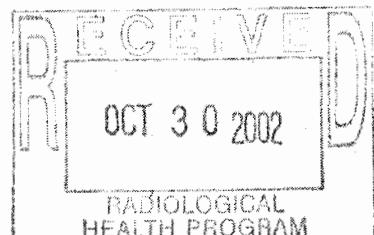
NAREL evaluates the results of duplicate and spike analyses using "Z scores." A Z score is the number of standard deviations by which the QC result differs from its ideal value. The score is considered acceptable if its absolute value is not greater than 3.

The Z score for a spiked sample is computed by dividing the difference between the measured value and the target value by the combined standard uncertainty of the difference.

The Z score for a duplicate analysis is computed by dividing the difference between the two measured values by the combined standard uncertainty of the difference. When the precision of paired MS/MSD analyses is evaluated, the native sample activity is subtracted from each measured value and the net concentrations are then converted to total activities before the Z score is computed.

Each standard uncertainty used to compute a Z score includes an additional fixed term to represent sources of measurement error other than counting error. This additional term is not used in the evaluation of reagent blanks.

NAREL reports the "relative percent difference," or RPD, between duplicate results and the "percent recovery," or %R, for spiked analyses, but does not use these values for evaluation.



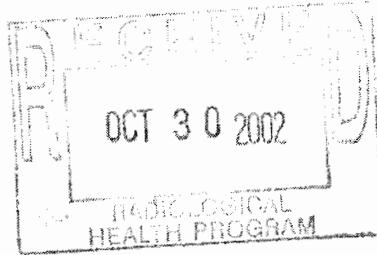
## GENERAL INFORMATION (CONTINUED)

### GAMMA ANALYSIS

The reporting format lists the gamma emitters in alphabetical order. The activity and 2-sigma uncertainty for radionuclides measured by gamma spectroscopy are reported only if the nuclide is detected. Nuclides that are not detected do not appear in the report, with the exception of Ba-140, Co-60, Cs-137, I-131, K-40, Ra-226 and Ra-228. If one of these seven nuclides is undetected, NAREL reports it as "Not Detected" or "ND", and provides a sample-specific estimate of the MDC.

Due to potential spectral interferences and other possible problems associated with the determination of the activity of certain radionuclides, the activities for Th-234, Pa-234m, Ra-226, Th-231, and U-235 are subject to greater possible uncertainty than other commonly reported radionuclides. It should be noted that this potential uncertainty is not included in the two-sigma counting uncertainty which is reported with each activity. Although in this report we do provide the calculated activities for these radionuclides, we recommend that the results be used only as a qualitative means of indicating the presence of these radionuclides and not as a quantitative measure of their concentration. The results for these nuclides are not used in the evaluation of quality control samples. Furthermore, because of mutual interference between Ra-226 and U-235, NAREL's gamma analysis software tends to overestimate the amounts of these nuclides whenever both are present in a sample. Lower estimates for Ra-226 activities can be obtained from the reported activities of its decay products, Pb-214 and Bi-214, which are likely to be somewhat less than the Ra-226 activity because of the potential escape of radon gas.

NAREL's gamma spectroscopy software corrects activities and MDCs for decay between collection and analysis, but only up to a limit of ten half-lives. So, if the decay time for a sample is more than ten half-lives of a radionuclide, that nuclide will almost always be undetected and the reported MDC will be meaningless. This is usually a problem only for short-lived radionuclides, such as I-131 and Ba-140, when there is a long delay between collection and analysis.



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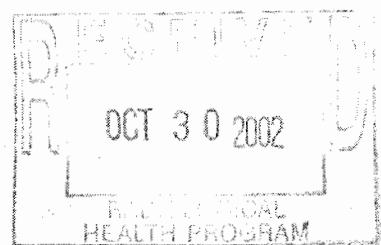
ORIGINAL

**ANALYSIS SUMMARY**

Analysis Procedure: NAREL GAM-01  
Title: Gamma Spectrometry

NAREL Sample #	QC Type	Preparation Procedure	Date Completed	Prep Batch #	QC Batch #
A2.03832M	DUP	N/A	08/28/2002	0007051T	0002581J
A2.03833N		N/A	08/29/2002	0007054W	0002581J
A2.03834P		N/A	08/29/2002	0007054W	0002581J
A2.03835Q		N/A	08/29/2002	0007054W	0002581J
A2.03835Q		N/A	08/30/2002	0007054W	0002581J
A2.03836R		N/A	08/29/2002	0007054W	0002581J
A2.03837T		N/A	08/29/2002	0007054W	0002581J
A2.03838U		N/A	08/29/2002	0007054W	0002581J
A2.03839V		N/A	08/30/2002	0007067B	0002581J
A2.03844R		N/A	08/30/2002	0007067B	0002581J
A2.03845T		N/A	08/30/2002	0007067B	0002581J

\* Samples marked with an asterisk are not in this sample delivery group but were analyzed with it for QC purposes.



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**SAMPLE ANALYSIS REPORT**

Sample #:	A2.03832M	QC batch #:	0002581J
Matrix:	SOIL	Prep batch #:	0007051T
Sample type:	SAM	Prep procedure:	N/A
Amount analyzed:	3.310e+02 GDRY	Analysis procedure:	NAREL GAM-01
Dry/wet weight:	79.98 %	Analyst:	N/A
Ash/dry weight:	N/A	QC type:	ANA

Comment: 8 FT. FROM BACK FENCE

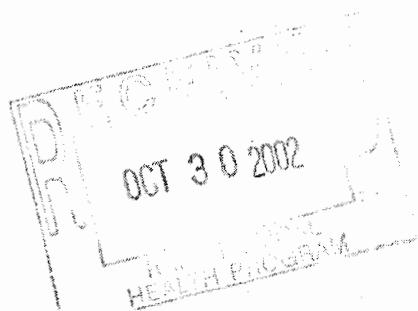
**COUNTING INFORMATION**

Date and time	Duration (min)	Detector ID	Operator
08/27/2002 14:20	1000.0	GE07	KNG

**ANALYTICAL RESULTS**

Analyte	Activity	$\pm 2\sigma$ Uncertainty	MDC	Unit	Date
Ba140	ND		9.2e-02	PCI/GDRY	08/15/2002
Bi214 *	2.24e-02	2.3e-02		PCI/GDRY	08/15/2002
Co60	ND		1.7e-02	PCI/GDRY	08/15/2002
Cs137	ND		1.6e-02	PCI/GDRY	08/15/2002
I131	ND		3.8e-02	PCI/GDRY	08/15/2002
K40	ND		1.4e-01	PCI/GDRY	08/15/2002
Pb212	2.19e-02	2.1e-02		PCI/GDRY	08/15/2002
Pb214 *	2.32e-02	2.2e-02		PCI/GDRY	08/15/2002
Ra226	ND		2.7e-01	PCI/GDRY	08/15/2002
Ra228	ND		5.0e-02	PCI/GDRY	08/15/2002

\* An asterisk indicates a result whose value may be significantly over or underestimated.



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**SAMPLE ANALYSIS REPORT**

Sample #:	A2.03833N	QC batch #:	0002581J
Matrix:	SOIL	Prep batch #:	0007054W
Sample type:	SAM	Prep procedure:	N/A
Amount analyzed:	4.110e+02 GDRY	Analysis procedure:	NAREL GAM-01
Dry/wet weight:	91.22 %	Analyst:	N/A
Ash/dry weight:	N/A	QC type:	ANA

Comment: 1 METER WEST OF NP #12

**COUNTING INFORMATION**

Date and time	Duration (min)	Detector ID	Operator
08/28/2002 14:04	1000.0	GE02	KNG

**ANALYTICAL RESULTS**

Analyte	Activity	$\pm 2\sigma$ Uncertainty	MDC	Unit	Date
Ba140	ND		7.3e-01	PCI/GDRY	08/15/2002
Bi214 *	5.75e-01	1.0e-01		PCI/GDRY	08/15/2002
Co60	4.10e+01	2.3e+00		PCI/GDRY	08/15/2002
Cs137	1.94e-01	5.9e-02		PCI/GDRY	08/15/2002
I131	ND		2.4e-01	PCI/GDRY	08/15/2002
K40	8.85e+00	6.7e-01		PCI/GDRY	08/15/2002
Pb212	7.01e-01	7.1e-02		PCI/GDRY	08/15/2002
Pb214 *	6.44e-01	8.3e-02		PCI/GDRY	08/15/2002
Ra226 *	1.48e+00	6.3e-01		PCI/GDRY	08/15/2002
Ra228	5.11e-01	1.6e-01		PCI/GDRY	08/15/2002
Tl208	2.60e-01	6.5e-02		PCI/GDRY	08/15/2002

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**SAMPLE ANALYSIS REPORT**

Sample #:	A2.03834P	QC batch #:	0002581J
Matrix:	SOIL	Prep batch #:	0007054W
Sample type:	SAM	Prep procedure:	N/A
Amount analyzed:	3.650e+02 GDRY	Analysis procedure:	NAREL GAM-01
Dry/wet weight:	82.57 %	Analyst:	N/A
Ash/dry weight:	N/A	QC type:	ANA

Comment: SOUTH POWER POLE - WEST PROPERTY LINE

**COUNTING INFORMATION**

Date and time	Duration (min)	Detector ID	Operator
08/28/2002 14:04	1000.0	GE03	KNG

**ANALYTICAL RESULTS**

Analyte	Activity	$\pm 2\sigma$ Uncertainty	MDC	Unit	Date
Ba140	ND		5.7e-01	PCI/GDRY	08/15/2002
Be7	6.21e-01	3.1e-01		PCI/GDRY	08/15/2002
Bi212	1.40e+00	5.5e-01		PCI/GDRY	08/15/2002
Bi214 *	9.49e-01	8.4e-02		PCI/GDRY	08/15/2002
Co60	5.39e+01	3.1e+00		PCI/GDRY	08/15/2002
Cs137	3.05e-01	4.3e-02		PCI/GDRY	08/15/2002
I131	ND		2.2e-01	PCI/GDRY	08/15/2002
K40	2.60e+01	1.5e+00		PCI/GDRY	08/15/2002
Pb212	1.62e+00	1.1e-01		PCI/GDRY	08/15/2002
Pb214 *	1.14e+00	9.0e-02		PCI/GDRY	08/15/2002
Ra224	9.79e-01	7.0e-01		PCI/GDRY	08/15/2002
Ra226 *	2.55e+00	6.2e-01		PCI/GDRY	08/15/2002
Ra228	1.19e+00	1.5e-01		PCI/GDRY	08/15/2002
Tl208	5.08e-01	4.7e-02		PCI/GDRY	08/15/2002

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**SAMPLE ANALYSIS REPORT**

Sample #:	A2.03835Q	QC batch #:	0002581J
Matrix:	SOIL	Prep batch #:	0007054W
Sample type:	SAM	Prep procedure:	N/A
Amount analyzed:	3.750e+02 GDRY	Analysis procedure:	NAREL GAM-01
Dry/wet weight:	83.54 %	Analyst:	N/A
Ash/dry weight:	N/A	QC type:	ANA

Comment: FENCE LINE - SW CORNER

**COUNTING INFORMATION**

Date and time	Duration (min)	Detector ID	Operator
08/28/2002 14:04	1000.0	GE04	KNG

**ANALYTICAL RESULTS**

Analyte	Activity	$\pm 2\sigma$ Uncertainty	MDC	Unit	Date
Ba140	ND		5.1e-01	PCI/GDRY	08/15/2002
Be7	5.89e-01	3.0e-01		PCI/GDRY	08/15/2002
Bi212	1.52e+00	6.0e-01		PCI/GDRY	08/15/2002
Bi214 *	9.08e-01	8.2e-02		PCI/GDRY	08/15/2002
Co60	3.37e+01	1.9e+00		PCI/GDRY	08/15/2002
Cs137	2.43e-01	4.3e-02		PCI/GDRY	08/15/2002
I131	ND		1.9e-01	PCI/GDRY	08/15/2002
K40	1.91e+01	1.1e+00		PCI/GDRY	08/15/2002
Pb212	1.42e+00	9.8e-02		PCI/GDRY	08/15/2002
Pb214 *	1.04e+00	8.1e-02		PCI/GDRY	08/15/2002
Ra224	1.20e+00	6.6e-01		PCI/GDRY	08/15/2002
Ra226 *	2.73e+00	5.7e-01		PCI/GDRY	08/15/2002
Ra228	1.14e+00	1.3e-01		PCI/GDRY	08/15/2002
Tl208	4.66e-01	4.5e-02		PCI/GDRY	08/15/2002

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**SAMPLE ANALYSIS REPORT**

Sample #:	A2.03835Q	QC batch #:	0002581J
Matrix:	SOIL	Prep batch #:	0007054W
Sample type:	SAM	Prep procedure:	N/A
Amount analyzed:	3.750e+02 GDRY	Analysis procedure:	NAREL GAM-01
Dry/wet weight:	83.54 %	Analyst:	N/A
Ash/dry weight:	N/A	QC type:	DUP

Comment: FENCE LINE - SW CORNER

**COUNTING INFORMATION**

Date and time	Duration (min)	Detector ID	Operator
08/29/2002 13:30	1000.0	GE02	KNG

**ANALYTICAL RESULTS**

Analyte	Activity	$\pm 2\sigma$ Uncertainty	MDC	Unit	Date
Ba140	ND		7.5e-01	PCI/GDRY	08/15/2002
Be7	3.50e-01	3.7e-01		PCI/GDRY	08/15/2002
Bi212	1.48e+00	1.1e+00		PCI/GDRY	08/15/2002
Bi214 *	9.86e-01	1.1e-01		PCI/GDRY	08/15/2002
Co60	3.49e+01	2.0e+00		PCI/GDRY	08/15/2002
Cs137	2.52e-01	6.3e-02		PCI/GDRY	08/15/2002
I131	ND		2.6e-01	PCI/GDRY	08/15/2002
K40	1.90e+01	1.3e+00		PCI/GDRY	08/15/2002
Pb212	1.40e+00	1.1e-01		PCI/GDRY	08/15/2002
Pb214 *	9.87e-01	9.4e-02		PCI/GDRY	08/15/2002
Ra224	1.62e+00	9.0e-01		PCI/GDRY	08/15/2002
Ra226 *	2.30e+00	7.0e-01		PCI/GDRY	08/15/2002
Ra228	1.12e+00	1.8e-01		PCI/GDRY	08/15/2002
Tl208	4.44e-01	6.1e-02		PCI/GDRY	08/15/2002

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**SAMPLE ANALYSIS REPORT**

Sample #:	A2.03836R	QC batch #:	0002581J
Matrix:	SOIL	Prep batch #:	0007054W
Sample type:	SAM	Prep procedure:	N/A
Amount analyzed:	3.630e+02 GDRY	Analysis procedure:	NAREL GAM-01
Dry/wet weight:	86.50 %	Analyst:	N/A
Ash/dry weight:	N/A	QC type:	ANA

Comment: 5 FT. W OF FENCE

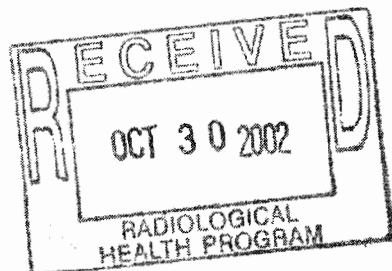
**COUNTING INFORMATION**

Date and time	Duration (min)	Detector ID	Operator
08/28/2002 14:05	1000.0	GE05	KNG

**ANALYTICAL RESULTS**

Analyte	Activity	$\pm 2\sigma$ Uncertainty	MDC	Unit	Date
Ba140	ND		3.2e-01	PCI/GDRY	08/15/2002
Bi212	1.12e+00	3.5e-01		PCI/GDRY	08/15/2002
Bi214 *	7.85e-01	6.5e-02		PCI/GDRY	08/15/2002
Co60	1.17e+01	6.7e-01		PCI/GDRY	08/15/2002
Cs137	1.99e-01	3.1e-02		PCI/GDRY	08/15/2002
I131	ND		1.1e-01	PCI/GDRY	08/15/2002
K40	1.41e+01	8.8e-01		PCI/GDRY	08/15/2002
Pb212	1.16e+00	7.8e-02		PCI/GDRY	08/15/2002
Pb214 *	8.20e-01	6.1e-02		PCI/GDRY	08/15/2002
Ra224	7.76e-01	4.5e-01		PCI/GDRY	08/15/2002
Ra226 *	2.01e+00	4.1e-01		PCI/GDRY	08/15/2002
Ra228	1.01e+00	9.8e-02		PCI/GDRY	08/15/2002
Th234 *	1.06e+00	3.0e-01		PCI/GDRY	08/15/2002
Tl208	3.53e-01	3.6e-02		PCI/GDRY	08/15/2002

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**SAMPLE ANALYSIS REPORT**

Sample #:	A2.03837T	QC batch #:	0002581J
Matrix:	SOIL	Prep batch #:	0007054W
Sample type:	SAM	Prep procedure:	N/A
Amount analyzed:	3.720e+02 GDRY	Analysis procedure:	NAREL GAM-01
Dry/wet weight:	88.18 %	Analyst:	N/A
Ash/dry weight:	N/A	QC type:	ANA

Comment: RR SIDING - 2 1/2 POSTS E OF SW CORNER

**COUNTING INFORMATION**

Date and time	Duration (min)	Detector ID	Operator
08/28/2002 14:05	1000.0	GE06	KNG

**ANALYTICAL RESULTS**

Analyte	Activity	$\pm 2\sigma$ Uncertainty	MDC	Unit	Date
Ba140	ND		9.1e-01	PCI/GDRY	08/15/2002
Bi214 *	5.52e-01	9.8e-02		PCI/GDRY	08/15/2002
Co60	1.16e+02	6.6e+00		PCI/GDRY	08/15/2002
Cs137	6.10e-01	7.6e-02		PCI/GDRY	08/15/2002
I131	ND		3.3e-01	PCI/GDRY	08/15/2002
K40	9.76e+00	6.6e-01		PCI/GDRY	08/15/2002
Pb212	7.02e-01	1.0e-01		PCI/GDRY	08/15/2002
Pb214 *	5.66e-01	9.7e-02		PCI/GDRY	08/15/2002
Ra226 *	2.08e+00	1.0e+00		PCI/GDRY	08/15/2002
Ra228	ND		7.7e-01	PCI/GDRY	08/15/2002
Tl208	2.78e-01	6.7e-02		PCI/GDRY	08/15/2002

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GAMMA ANALYSES  
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**SAMPLE ANALYSIS REPORT**

Sample #:	A2.03838U	QC batch #:	0002581J
Matrix:	SOIL	Prep batch #:	0007054W
Sample type:	SAM	Prep procedure:	N/A
Amount analyzed:	3.700e+02 GDRY	Analysis procedure:	NAREL GAM-01
Dry/wet weight:	96.16 %	Analyst:	N/A
Ash/dry weight:	N/A	QC type:	ANA

Comment: 5 FT. E OF STOP SIGN

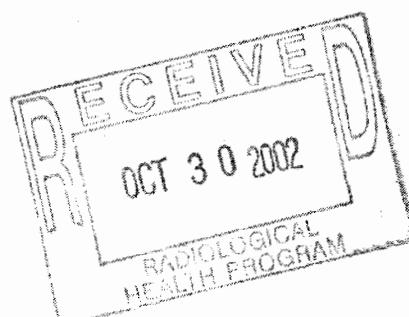
**COUNTING INFORMATION**

Date and time	Duration (min)	Detector ID	Operator
08/28/2002 14:05	1000.0	GE07	KNG

**ANALYTICAL RESULTS**

Analyte	Activity	$\pm 2\sigma$ Uncertainty	MDC	Unit	Date
Ba140	ND		3.8e-01	PCI/GDRY	08/15/2002
Be7	2.10e-01	1.7e-01		PCI/GDRY	08/15/2002
Bi212	4.85e-01	3.7e-01		PCI/GDRY	08/15/2002
Bi214 *	5.59e-01	6.2e-02		PCI/GDRY	08/15/2002
Co60	1.69e+01	9.6e-01		PCI/GDRY	08/15/2002
Cs137	4.03e-01	3.9e-02		PCI/GDRY	08/15/2002
I131	ND		1.3e-01	PCI/GDRY	08/15/2002
K40	1.11e+01	7.1e-01		PCI/GDRY	08/15/2002
Pb212	8.00e-01	6.3e-02		PCI/GDRY	08/15/2002
Pb214 *	6.48e-01	6.1e-02		PCI/GDRY	08/15/2002
Ra224	1.00e+00	6.3e-01		PCI/GDRY	08/15/2002
Ra226 *	1.10e+00	4.0e-01		PCI/GDRY	08/15/2002
Ra228	6.95e-01	9.5e-02		PCI/GDRY	08/15/2002
Tl208	2.53e-01	3.2e-02		PCI/GDRY	08/15/2002

\* An asterisk indicates a result whose value may be significantly over or underestimated.



**U.S. ENVIRONMENTAL PROTECTION AGENCY  
NATIONAL AIR AND RADIATION ENVIRONMENTAL LABORATORY  
GAMMA ANALYSES  
SDG #0200037**

**SAMPLE ANALYSIS REPORT**

Sample #:	A2.03839V	QC batch #:	0002581J
Matrix:	SOIL	Prep batch #:	0007067B
Sample type:	SAM	Prep procedure:	N/A
Amount analyzed:	4.090e+02 GDRY	Analysis procedure:	NAREL GAM-01
Dry/wet weight:	93.43 %	Analyst:	N/A
Ash/dry weight:	N/A	QC type:	ANA
Comment:	WHITE HOUSE LAWN		

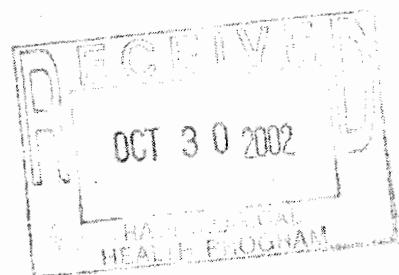
**COUNTING INFORMATION**

Date and time	Duration (min)	Detector ID	Operator
08/29/2002 13:32	1000.0	GE06	KNG

**ANALYTICAL RESULTS**

Analyte	Activity	$\pm 2\sigma$ Uncertainty	MDC	Unit	Date
Ba140	ND		5.5e-01	PCI/GDRY	08/15/2002
Bi212	1.09e+00	5.3e-01		PCI/GDRY	08/15/2002
Bi214 *	6.19e-01	6.4e-02		PCI/GDRY	08/15/2002
Co60	3.27e+01	1.9e+00		PCI/GDRY	08/15/2002
Cs137	4.49e-01	5.0e-02		PCI/GDRY	08/15/2002
I131	ND		1.9e-01	PCI/GDRY	08/15/2002
K40	1.66e+01	1.0e+00		PCI/GDRY	08/15/2002
Pb212	1.08e+00	8.2e-02		PCI/GDRY	08/15/2002
Pb214 *	7.07e-01	6.7e-02		PCI/GDRY	08/15/2002
Ra224	8.33e-01	7.1e-01		PCI/GDRY	08/15/2002
Ra226 *	1.74e+00	4.6e-01		PCI/GDRY	08/15/2002
Ra228	8.86e-01	1.2e-01		PCI/GDRY	08/15/2002
Tl208	3.35e-01	3.9e-02		PCI/GDRY	08/15/2002

\* An asterisk indicates a result whose value may be significantly over or underestimated.



**U.S. ENVIRONMENTAL PROTECTION AGENCY  
NATIONAL AIR AND RADIATION ENVIRONMENTAL LABORATORY  
GAMMA ANALYSES  
SDG #0200037**

ORIGINAL

**SAMPLE ANALYSIS REPORT**

Sample #:	A2.03844R	QC batch #:	0002581J
Matrix:	SOIL	Prep batch #:	0007067B
Sample type:	SAM	Prep procedure:	N/A
Amount analyzed:	3.810e+02 GDRY	Analysis procedure:	NAREL GAM-01
Dry/wet weight:	92.49 %	Analyst:	N/A
Ash/dry weight:	N/A	QC type:	ANA

Comment: DICKERSON CONSERVATION PARK

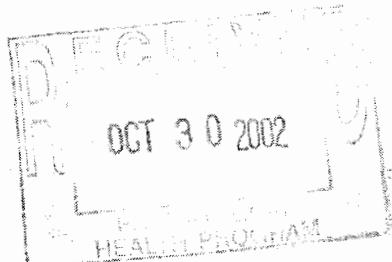
**COUNTING INFORMATION**

Date and time	Duration (min)	Detector ID	Operator
08/29/2002 13:31	1000.0	GE10	KNG

**ANALYTICAL RESULTS**

Analyte	Activity	$\pm 2\sigma$ Uncertainty	MDC	Unit	Date
Ba140	ND		1.7e-01	PCI/GDRY	08/14/2002
Be7	2.32e-01	1.1e-01		PCI/GDRY	08/14/2002
Bi212	1.12e+00	1.8e-01		PCI/GDRY	08/14/2002
Bi214 *	9.26e-01	6.2e-02		PCI/GDRY	08/14/2002
Co60	ND		3.0e-02	PCI/GDRY	08/14/2002
Cs137	2.99e-01	2.5e-02		PCI/GDRY	08/14/2002
I131	ND		7.5e-02	PCI/GDRY	08/14/2002
K40	1.54e+01	9.4e-01		PCI/GDRY	08/14/2002
Pa234m *	1.55e+00	1.6e+00		PCI/GDRY	08/14/2002
Pb212	1.22e+00	7.7e-02		PCI/GDRY	08/14/2002
Pb214 *	9.73e-01	6.3e-02		PCI/GDRY	08/14/2002
Ra224	9.35e-01	3.3e-01		PCI/GDRY	08/14/2002
Ra226 *	2.42e+00	3.2e-01		PCI/GDRY	08/14/2002
Ra228	1.07e+00	7.6e-02		PCI/GDRY	08/14/2002
Th234 *	1.04e+00	2.1e-01		PCI/GDRY	08/14/2002
Tl208	3.74e-01	2.8e-02		PCI/GDRY	08/14/2002

\* An asterisk indicates a result whose value may be significantly over or underestimated.



**U.S. ENVIRONMENTAL PROTECTION AGENCY  
NATIONAL AIR AND RADIATION ENVIRONMENTAL LABORATORY  
GAMMA ANALYSES  
SDG #0200037**

**SAMPLE ANALYSIS REPORT**

Sample #:	A2.03845T	QC batch #:	0002581J
Matrix:	SOIL	Prep batch #:	0007067B
Sample type:	SAM	Prep procedure:	N/A
Amount analyzed:	3.060e+02 GDRY	Analysis procedure:	NAREL GAM-01
Dry/wet weight:	91.30 %	Analyst:	N/A
Ash/dry weight:	N/A	QC type:	ANA

Comment: FIRE STATION - BEALSVILLE

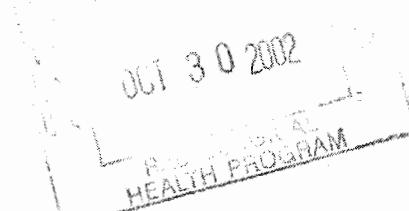
**COUNTING INFORMATION**

Date and time	Duration (min)	Detector ID	Operator
08/29/2002 13:31	1000.0	GE11	KNG

**ANALYTICAL RESULTS**

Analyte	Activity	± 2σ Uncertainty	MDC	Unit	Date
Ba140	ND		1.6e-01	PCI/GDRY	08/15/2002
Be7	6.59e-01	1.0e-01		PCI/GDRY	08/15/2002
Bi212	1.51e+00	1.9e-01		PCI/GDRY	08/15/2002
Bi214 *	9.15e-01	6.1e-02		PCI/GDRY	08/15/2002
Co60	ND		2.6e-02	PCI/GDRY	08/15/2002
Cs137	4.35e-01	3.1e-02		PCI/GDRY	08/15/2002
I131	ND		7.0e-02	PCI/GDRY	08/15/2002
K40	1.70e+01	1.0e+00		PCI/GDRY	08/15/2002
Pa234m	1.28e+00	1.4e+00		PCI/GDRY	08/15/2002
Pb212	1.78e+00	1.1e-01		PCI/GDRY	08/15/2002
Pb214 *	9.82e-01	6.3e-02		PCI/GDRY	08/15/2002
Ra224	1.52e+00	3.1e-01		PCI/GDRY	08/15/2002
Ra226 *	2.21e+00	3.3e-01		PCI/GDRY	08/15/2002
Ra228	1.58e+00	1.0e-01		PCI/GDRY	08/15/2002
Th234 *	6.99e-01	2.2e-01		PCI/GDRY	08/15/2002
Tl208	5.54e-01	3.7e-02		PCI/GDRY	08/15/2002
U235 *	1.40e-01	2.0e-02		PCI/GDRY	08/15/2002

\* An asterisk indicates a result whose value may be significantly over or underestimated.



**U.S. ENVIRONMENTAL PROTECTION AGENCY**  
**NATIONAL AIR AND RADIATION ENVIRONMENTAL LABORATORY**  
**GAMMA ANALYSES**  
**SDG #0200037**

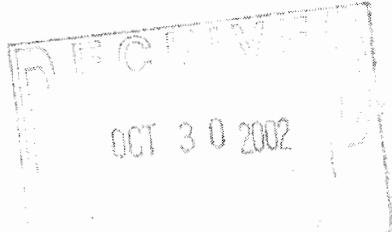
**QC BATCH SUMMARY**

ORIGINAL

QC batch #: 0002581J  
Preparation procedure: N/A  
Analysis procedure: NAREL GAM-01

NAREL Sample #	QC Type	Yield (%)	± 2σ Uncertainty (%)	Analyst
A2.03832M		N/A		N/A
A2.03833N		N/A		N/A
A2.03834P		N/A		N/A
A2.03835Q		N/A		N/A
A2.03835Q	DUP	N/A		N/A
A2.03836R		N/A		N/A
A2.03837T		N/A		N/A
A2.03838U		N/A		N/A
A2.03839V		N/A		N/A
A2.03844R		N/A		N/A
A2.03845T		N/A		N/A

\* Samples marked with an asterisk are not in this sample delivery group but were analyzed with it for QC purposes.



National Air and Radiation Environmental Laboratory  
QC Batch Report

QC Batch #: 0002581J

Analytical Procedure: NAREL GAM-01

LABORATORY DUPLICATES (PCI/GDRY)

Sample ID	Nuclide	Original $\pm 2\sigma$	Duplicate $\pm 2\sigma$	RPD	Z
A2.03835Q	BA140				
A2.03835Q	BE7	5.89e-01 $\pm$ 3.0e-01	3.50e-01 $\pm$ 3.7e-01	50.91	-0.99 OK
A2.03835Q	BI212	1.52e+00 $\pm$ 6.0e-01	1.48e+00 $\pm$ 1.1e+00	2.67	-0.07 OK
A2.03835Q	BI214	9.08e-01 $\pm$ 8.2e-02	9.86e-01 $\pm$ 1.1e-01	8.24	0.82 OK
A2.03835Q	CO60	3.37e+01 $\pm$ 1.9e+00	3.49e+01 $\pm$ 2.0e+00	3.50	0.43 OK
A2.03835Q	CS137	2.43e-01 $\pm$ 4.3e-02	2.52e-01 $\pm$ 6.3e-02	3.64	0.21 OK
A2.03835Q	I131				
A2.03835Q	K40	1.91e+01 $\pm$ 1.1e+00	1.90e+01 $\pm$ 1.3e+00	0.52	-0.06 OK
A2.03835Q	PB212	1.42e+00 $\pm$ 9.8e-02	1.40e+00 $\pm$ 1.1e-01	1.42	-0.16 OK
A2.03835Q	PB214	1.04e+00 $\pm$ 8.1e-02	9.87e-01 $\pm$ 9.4e-02	5.23	-0.56 OK
A2.03835Q	RA224	1.20e+00 $\pm$ 6.6e-01	1.62e+00 $\pm$ 9.0e-01	29.79	0.74 OK
A2.03835Q	RA226	2.73e+00 $\pm$ 5.7e-01	2.30e+00 $\pm$ 7.0e-01	17.10	-0.89 OK
A2.03835Q	RA228	1.14e+00 $\pm$ 1.3e-01	1.12e+00 $\pm$ 1.8e-01	1.77	-0.15 OK
A2.03835Q	TL208	4.66e-01 $\pm$ 4.5e-02	4.44e-01 $\pm$ 6.1e-02	4.84	-0.44 OK

Analyst: N/A

QA Officer: Linda M. McLean

9/11/02



**U.S. ENVIRONMENTAL PROTECTION AGENCY  
NATIONAL AIR AND RADIATION ENVIRONMENTAL LABORATORY**  
**GAMMA ANALYSES**

ORIGINAL

**REPORT OF SAMPLE DELIVERY GROUP #0200039**

Project: NEUTRON PRODUCTS  
Analysis Procedure: Gamma Spectrometry  
Date Reported: 09/10/2002

**SAMPLES**

NAREL Sample #	Client Sample ID	Type	Matrix	Date Collected	Date Received
A2.03843Q	BKG 02	SAM	WATER	08/14/2002	08/19/2002

**EXCEPTIONS**

1. Packaging and Shipping - No problems were observed.
2. Documentation - No problems were observed.
3. Sample Preparation - No problems were encountered.
4. Analysis - No problems were encountered.
5. Holding Times - All holding times were met.

**QUALITY CONTROL**

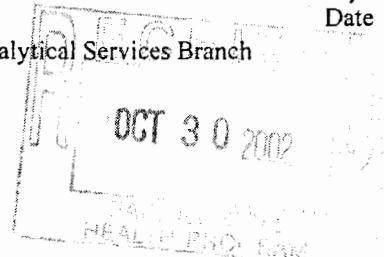
1. QC samples - All QC analysis results met NAREL acceptance criteria.
2. Instruments - Response and background checks for all instruments used in these analyses met NAREL acceptance criteria.

**CERTIFICATION**

I certify that this data report complies with the terms and conditions of the Quality Assurance Project Plan, except as noted above. Release of the data contained in this report has been authorized by the Chief of the Monitoring and Analytical Services Branch and the NAREL Quality Assurance Coordinator, or their designees, as verified by the following signatures.

*Mary F. Wisdom* 9/12/02  
Mary F. Wisdom  
Quality Assurance Coordinator

*John Griggs, Ph.D.* 9/12/02  
John Griggs, Ph.D.  
Chief, Monitoring and Analytical Services Branch



## GENERAL INFORMATION

### SAMPLE TYPES

BLD	Blind sample
FBK	Field blank
SAM	Normal sample

### ANALYSIS QC TYPES

ANA	Normal analysis
DUP	Laboratory duplicate
LCS	Laboratory control sample (blank spike)
MS	Matrix spike
MSD	Matrix spike duplicate
RBK	Reagent blank

### QUALITY INDICATORS

RPD	Relative Percent Difference
%R	Percent Recovery
Z	Number of standard deviations by which a QC measurement differs from the expected value

### EVALUATION OF QC ANALYSES

A reagent blank result is considered unacceptable if it is more than 3 standard deviations below zero or more than 3 standard deviations above a predetermined upper control limit. For some analyses NAREL has set the upper control limit at zero. For others the control limit is a small positive number.

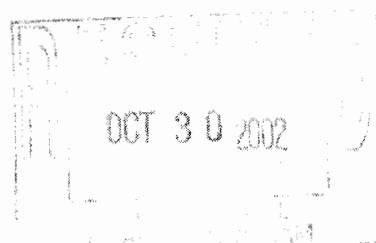
NAREL evaluates the results of duplicate and spike analyses using "Z scores." A Z score is the number of standard deviations by which the QC result differs from its ideal value. The score is considered acceptable if its absolute value is not greater than 3.

The Z score for a spiked sample is computed by dividing the difference between the measured value and the target value by the combined standard uncertainty of the difference.

The Z score for a duplicate analysis is computed by dividing the difference between the two measured values by the combined standard uncertainty of the difference. When the precision of paired MS/MSD analyses is evaluated, the native sample activity is subtracted from each measured value and the net concentrations are then converted to total activities before the Z score is computed.

Each standard uncertainty used to compute a Z score includes an additional fixed term to represent sources of measurement error other than counting error. This additional term is not used in the evaluation of reagent blanks.

NAREL reports the "relative percent difference," or RPD, between duplicate results and the "percent recovery," or %R, for spiked analyses, but does not use these values for evaluation.



## GENERAL INFORMATION (CONTINUED)

### GAMMA ANALYSIS

ORIGINAL

The reporting format lists the gamma emitters in alphabetical order. The activity and 2-sigma uncertainty for radionuclides measured by gamma spectroscopy are reported only if the nuclide is detected. Nuclides that are not detected do not appear in the report, with the exception of Ba-140, Co-60, Cs-137, I-131, K-40, Ra-226 and Ra-228. If one of these seven nuclides is undetected, NAREL reports it as "Not Detected" or "ND", and provides a sample-specific estimate of the MDC.

Due to potential spectral interferences and other possible problems associated with the determination of the activity of certain radionuclides, the activities for Th-234, Pa-234m, Ra-226, Th-231, and U-235 are subject to greater possible uncertainty than other commonly reported radionuclides. It should be noted that this potential uncertainty is not included in the two-sigma counting uncertainty which is reported with each activity. Although in this report we do provide the calculated activities for these radionuclides, we recommend that the results be used only as a qualitative means of indicating the presence of these radionuclides and not as a quantitative measure of their concentration. The results for these nuclides are not used in the evaluation of quality control samples. Furthermore, because of mutual interference between Ra-226 and U-235, NAREL's gamma analysis software tends to overestimate the amounts of these nuclides whenever both are present in a sample. Lower estimates for Ra-226 activities can be obtained from the reported activities of its decay products, Pb-214 and Bi-214, which are likely to be somewhat less than the Ra-226 activity because of the potential escape of radon gas.

NAREL's gamma spectroscopy software corrects activities and MDCs for decay between collection and analysis, but only up to a limit of ten half-lives. So, if the decay time for a sample is more than ten half-lives of a radionuclide, that nuclide will almost always be undetected and the reported MDC will be meaningless. This is usually a problem only for short-lived radionuclides, such as I-131 and Ba-140, when there is a long delay between collection and analysis.

OCT 30 2002

**U.S. ENVIRONMENTAL PROTECTION AGENCY  
NATIONAL AIR AND RADIATION ENVIRONMENTAL LABORATORY  
GAMMA ANALYSES  
SDG #0200039**

**ANALYSIS SUMMARY**

Analysis Procedure: NAREL GAM-01  
Title: Gamma Spectrometry

NAREL Sample #	QC Type	Preparation Procedure	Date Completed	Prep Batch #	QC Batch #
A2.03843Q		N/A	08/30/2002	0007035T	0002583L
A2.03843Q	DUP	N/A	08/23/2002	0007035T	0002583L

\* Samples marked with an asterisk are not in this sample delivery group but were analyzed with it for QC purposes.

8/30/2002  
OCT 30 2002

**U.S. ENVIRONMENTAL PROTECTION AGENCY**  
**NATIONAL AIR AND RADIATION ENVIRONMENTAL LABORATORY**  
**GAMMA ANALYSES**  
**SDG #0200039**

ORIGINAL

**SAMPLE ANALYSIS REPORT**

Sample #:	A2.03843Q	QC batch #:	0002583L
Matrix:	WATER	Prep batch #:	0007035T
Sample type:	SAM	Prep procedure:	N/A
Amount analyzed:	1.000e+00 L	Analysis procedure:	NAREL GAM-01
Dry/wet weight:	N/A	Analyst:	N/A
Ash/dry weight:	N/A	QC type:	ANA

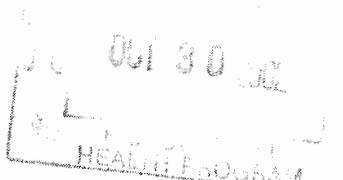
Comment: LITTLE MONOCACY CREEK

**COUNTING INFORMATION**

Date and time	Duration (min)	Detector ID	Operator
08/29/2002 13:31	1000.0	GE04	KNG

**ANALYTICAL RESULTS**

Analyte	Activity	± 2σ Uncertainty	MDC	Unit	Date
Ba140	ND		3.4e+01	PCI/L	08/14/2002
Co60	ND		5.5e+00	PCI/L	08/14/2002
Cs137	ND		4.9e+00	PCI/L	08/14/2002
I131	ND		1.5e+01	PCI/L	08/14/2002
K40	ND		4.8e+01	PCI/L	08/14/2002
Ra226	ND		8.1e+01	PCI/L	08/14/2002
Ra228	ND		1.7e+01	PCI/L	08/14/2002



**U.S. ENVIRONMENTAL PROTECTION AGENCY  
NATIONAL AIR AND RADIATION ENVIRONMENTAL LABORATORY  
GAMMA ANALYSES  
SDG #0200039**

**SAMPLE ANALYSIS REPORT**

Sample #:	A2.03843Q	QC batch #:	0002583L
Matrix:	WATER	Prep batch #:	0007035T
Sample type:	SAM	Prep procedure:	N/A
Amount analyzed:	1.000e+00 L	Analysis procedure:	NAREL GAM-01
Dry/wet weight:	N/A	Analyst:	N/A
Ash/dry weight:	N/A	QC type:	DUP

Comment: LITTLE MONOCACY CREEK

**COUNTING INFORMATION**

Date and time	Duration (min)	Detector ID	Operator
08/22/2002 14:14	1000.0	GE12	KNG

**ANALYTICAL RESULTS**

Analyte	Activity	$\pm 2\sigma$ Uncertainty	MDC	Unit	Date
Ba140	ND		2.0e+01	PCI/L	08/14/2002
Co60	ND		4.4e+00	PCI/L	08/14/2002
Cs137	ND		4.5e+00	PCI/L	08/14/2002
I131	ND		6.9e+00	PCI/L	08/14/2002
K40	ND		5.0e+01	PCI/L	08/14/2002
Pb212	3.60e+00	4.8e+00		PCI/L	08/14/2002
Ra226	ND		6.6e+01	PCI/L	08/14/2002
Ra228	ND		1.4e+01	PCI/L	08/14/2002

08/30/2002

**U.S. ENVIRONMENTAL PROTECTION AGENCY  
NATIONAL AIR AND RADIATION ENVIRONMENTAL LABORATORY  
GAMMA ANALYSES  
SDG #0200039**

**QC BATCH SUMMARY**

ORIGINAL

QC batch #: 0002583L

Preparation procedure: N/A

Analysis procedure: NAREL GAM-01

NAREL Sample #	QC Type	Yield (%)	± 2σ Uncertainty (%)	Analyst
A2.03843Q		N/A		N/A
A2.03843Q	DUP	N/A		N/A

\* Samples marked with an asterisk are not in this sample delivery group but were analyzed with it for QC purposes.

OCT 30 2002

National Air and Radiation Environmental Laboratory  
QC Batch Report

QC Batch #: 0002583L

Analytical Procedure: NAREL GAM-01

LABORATORY DUPLICATES (PCI/L)

Sample ID	Nuclide	Original $\pm 2\sigma$	Duplicate $\pm 2\sigma$	RPD	Z
A2.03843Q	BA140				
A2.03843Q	CO60				
A2.03843Q	CS137				
A2.03843Q	I131				
A2.03843Q	K40				
A2.03843Q	RA226				
A2.03843Q	RA228				

Analyst:

N/A

QA Officer:

Kirk D. McElroy

9/11/02

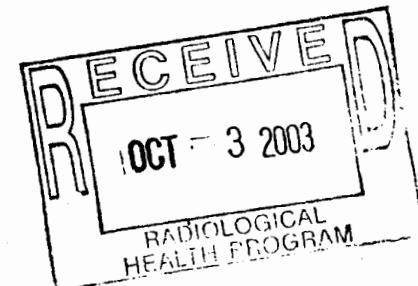
30282

NPI

Sum of cicalcinv2	
locate	Total
tx	33,323
(blank)	309,771
Grand Total	343,094

MAIN POOL INVENTORY (ACCOUNTING) = 309,771  
+ 148,376 —  
458,147

PLUS STELLITE, PLUS WASTE, PLUS SOURCES LISTED @ ICI DUE TO  
NEED TO CALIBRATE THEM, FOR A TOTAL  
OF 527,796.



ORIGINAL

NEUTRON PRODUCTS, INC.

manuf	model	serialno	slugno	curies	cdate	cicalcinv1	cicalcdtate1	cicalcinv2	cicalcdtate2	countinv	locate
amersham	CKC171	0503ET		1,690	2/1/98	886	12/31/02	802	10/2/03	1	
amersham	CKC201	0370ET		2,500	4/1/97	1,174	12/31/02	1,063	10/2/03	1	
amersham		0536ET		5,687	11/1/91	1,310	12/31/02	1,186	10/2/03	1	
amersham		0624ET		5,500	3/1/95	1,963	12/31/02	1,777	10/2/03	1	
ams	3801	AMS2486		850	3/1/98	450	12/31/02	408	10/2/03	1	
ams	ams	AMS2616		1,800	9/21/01	1,522	12/31/02	1,378	10/2/03	1	
AMS	AMS 3802	AMS22334		2,759	7/1/85	276	12/31/02	250	10/2/03	1	
ams		2576		1,947	2/1/88	274	12/31/02	248	10/2/03	1	
ams		2584		2,121	4/1/89	348	12/31/02	315	10/2/03	1	
ams		AMS.????		1	1/1/60	0	12/31/02	0	10/2/03	1	
ams		AMS2404		167	5/12/97	80	12/31/02	72	10/2/03	1	
ams		AMS2545		900	5/1/96	375	12/31/02	339	10/2/03	1	
ams		AMS2568		1	1/1/60	0	12/31/02	0	10/2/03	1	
ams		AMS2597		1,450	1/1/60	5	12/31/02	5	10/2/03	1	
arg	16	119-13		971	6/1/94	314	12/31/02	284	10/2/03	1	
arg	24	101-11B		1,010	8/1/97	496	12/31/02	449	10/2/03	1	
arg	24	101-12B		1,140	8/1/97	559	12/31/02	506	10/2/03	1	
arg	24	105-5		16,890	8/1/97	8,287	12/31/02	7,504	10/2/03	1	
arg	24	109-6B		2,630	8/1/97	1,290	12/31/02	1,168	10/2/03	1	
arg	24	119-15B		590	8/1/97	289	12/31/02	262	10/2/03	1	
ceo		CEO1602		1	1/1/60	0	12/31/02	0	10/2/03	1	
cgr		CGR3774		1,330	4/21/96	552	12/31/02	499	10/2/03	1	
CIS-bio		3789		1,400	4/17/02	1,276	12/31/02	1,155	10/2/03	1	tx
ge	CKC171	0503ET		1,690	2/1/98	886	12/31/02	802	10/2/03	1	
ge	GE106D39	GET20196		1,370	1/15/98	714	12/31/02	646	10/2/03	1	
ge	GE106D39	GET20196		1,370	1/15/98	714	12/31/02	646	10/2/03	1	
ge	GET	GET-20-216		1,920	1/1/60	7	12/31/02	6	10/2/03	1	
ge	GET	GET-20-220		1,809	10/10/97	910	12/31/02	824	10/2/03	1	
ge		GET1062		1	1/1/60	0	12/31/02	0	10/2/03	1	
GE	x			6,670	7/1/93	1,913	12/31/02	1,732	10/2/03	1	
npi	nprp	74210		9	11/20/97	5	12/31/02	4	10/2/03	1	
npi	nprp	74211		12	11/20/97	6	12/31/02	6	10/2/03	1	
npi	nprp	74212		15	11/20/97	8	12/31/02	7	10/2/03	1	
npi	nprp	74213		19	11/20/97	10	12/31/02	9	10/2/03	1	
npi	nprp	74214		15	11/20/97	8	12/31/02	7	10/2/03	1	
npi	nprp	74215		13	11/20/97	7	12/31/02	6	10/2/03	1	
npi	nprp	74216		15	11/20/97	8	12/31/02	7	10/2/03	1	
npi	nprp	74217		18	11/20/97	9	12/31/02	8	10/2/03	1	
npi	nprp	74218		88	11/20/97	45	12/31/02	41	10/2/03	1	
npi	nprp	74219		79	11/20/97	40	12/31/02	37	10/2/03	1	
npi	nprp	74220		83	11/20/97	42	12/31/02	38	10/2/03	1	

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manuf	model	serialno	slugno	curies	cidate	cicalcinv1	cicalcdt1	cicalcinv2	cicalcdt2	countinv	locate
npi	nprp	74221		78	11/20/97	40	12/31/02	36	10/2/03	1	
npi	nprp	74222		78	11/20/97	40	12/31/02	36	10/2/03	1	
npi	nprp	74223		78	11/20/97	40	12/31/02	36	10/2/03	1	
npi	nprp	74224		81	11/20/97	41	12/31/02	37	10/2/03	1	
npi	nprp	74225		77	11/20/97	39	12/31/02	36	10/2/03	1	
npi	nprp	74226		75	11/20/97	38	12/31/02	35	10/2/03	1	
npi	nprp	74227		72	11/20/97	37	12/31/02	33	10/2/03	1	
npi	nprp	74228		67	11/20/97	34	12/31/02	31	10/2/03	1	
npi	nprp	74229		76	11/20/97	39	12/31/02	35	10/2/03	1	
npi	nprp	74230		65	11/20/97	33	12/31/02	30	10/2/03	1	
npi	nprp	74231		73	11/20/97	37	12/31/02	34	10/2/03	1	
npi	nprp	74232		68	11/20/97	35	12/31/02	31	10/2/03	1	
npi	nprp	74233		65	11/20/97	33	12/31/02	30	10/2/03	1	
npi	nprp	74234		68	11/20/97	35	12/31/02	31	10/2/03	1	
npi	nprp	74235		64	11/20/97	33	12/31/02	30	10/2/03	1	
npi	nprp	74236		66	11/20/97	34	12/31/02	31	10/2/03	1	
npi	nprp	74237		66	11/20/97	34	12/31/02	31	10/2/03	1	
npi	nprp	74238		67	11/20/97	34	12/31/02	31	10/2/03	1	
npi	nprp	74239		61	11/20/97	31	12/31/02	28	10/2/03	1	
npi	nprp	74240		65	11/20/97	33	12/31/02	30	10/2/03	1	
npi	nprp	74241		66	11/20/97	34	12/31/02	31	10/2/03	1	
npi	nprp	76806		1	5/12/93	0	12/31/02	0	10/2/03	1	
npi	nprp	76809		1	5/12/93	0	12/31/02	0	10/2/03	1	
npi	nprp	77102		100	1/1/97	45	12/31/02	41	10/2/03	1	
npi	nprp	77105		110	1/1/97	50	12/31/02	45	10/2/03	1	
npi	nprp	77108		90	1/1/97	41	12/31/02	37	10/2/03	1	
npi	nprp	77112		90	1/1/97	41	12/31/02	37	10/2/03	1	
npi	nprp	77113		100	1/1/97	45	12/31/02	37	10/2/03	1	
npi	nprp	77114		100	1/1/97	45	12/31/02	41	10/2/03	1	
npi	nprp	77117		100	1/1/97	45	12/31/02	41	10/2/03	1	
npi	nprp	77119		90	1/1/97	41	12/31/02	37	10/2/03	1	
npi	nprp	77121		100	1/1/97	45	12/31/02	41	10/2/03	1	
npi	nprp	77122		90	1/1/97	41	12/31/02	37	10/2/03	1	
npi	nprp	77124		100	1/1/97	45	12/31/02	41	10/2/03	1	
npi	nprp	77125		110	1/1/97	50	12/31/02	45	10/2/03	1	
npi	nprp	77127		110	1/1/97	50	12/31/02	45	10/2/03	1	
npi	nprp	77128		110	1/1/97	50	12/31/02	45	10/2/03	1	
npi	nprp	77133		90	1/1/97	41	12/31/02	37	10/2/03	1	
npi	nprp	77135		100	1/1/97	45	12/31/02	41	10/2/03	1	
npi	nprp	77138		90	1/1/97	41	12/31/02	37	10/2/03	1	
npi	nprp	77142		100	1/1/97	45	12/31/02	41	10/2/03	1	

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manuf	model	serialno	slugno	curies	cidate	cicalcinv1	cicalcdt1	cicalcinv2	cicalcdt2	countinv	locate
npi	nprp	77143		110	1/1/97	50	12/31/02	45	10/2/03	1	
npi	nprp	77147		100	1/1/97	45	12/31/02	41	10/2/03	1	
npi	nprp	77150		90	1/1/97	41	12/31/02	37	10/2/03	1	
npi	nprp	77153		90	1/1/97	41	12/31/02	37	10/2/03	1	
npi	nprp	77155		100	1/1/97	45	12/31/02	41	10/2/03	1	
npi	nprp	77160		90	1/1/97	41	12/31/02	37	10/2/03	1	
npi	nprp	77165		100	1/1/97	45	12/31/02	41	10/2/03	1	
npi	nprp	77166		90	1/1/97	41	12/31/02	37	10/2/03	1	
npi	nprp	77171		90	1/1/97	41	12/31/02	37	10/2/03	1	
npi	nprp	77183		100	1/1/97	45	12/31/02	41	10/2/03	1	
npi	nprp	77185		90	1/1/97	41	12/31/02	37	10/2/03	1	
npi	nprp	77189		110	1/1/97	50	12/31/02	45	10/2/03	1	
npi	nprp	77191		90	1/1/97	41	12/31/02	37	10/2/03	1	
npi	nprp	77192		90	1/1/97	41	12/31/02	37	10/2/03	1	
npi	nprp	77193		90	1/1/97	41	12/31/02	37	10/2/03	1	
npi	nprp	77196		90	1/1/97	41	12/31/02	37	10/2/03	1	
npi	nprp	77200		100	1/1/97	45	12/31/02	37	10/2/03	1	
npi	nprp	77201		90	1/1/97	41	12/31/02	41	10/2/03	1	
npi	nprp	77202		100	1/1/97	45	12/31/02	41	10/2/03	1	
npi	nprp	77204		90	1/1/97	41	12/31/02	37	10/2/03	1	
npi	nprp	77206		90	1/1/97	41	12/31/02	37	10/2/03	1	
npi	nprp	77209		90	1/1/97	41	12/31/02	37	10/2/03	1	
npi	nprp	77211		90	1/1/97	41	12/31/02	37	10/2/03	1	
npi	nprp	77215		100	1/1/97	45	12/31/02	41	10/2/03	1	
npi	nprp	77216		100	1/1/97	45	12/31/02	41	10/2/03	1	
npi	nprp	77219		100	1/1/97	45	12/31/02	41	10/2/03	1	
npi	nprp	77220		110	1/1/97	50	12/31/02	45	10/2/03	1	
npi	nprp	77221		90	1/1/97	41	12/31/02	37	10/2/03	1	
npi	nprp	77225		100	1/1/97	45	12/31/02	41	10/2/03	1	
npi	nprp	77226		100	1/1/97	45	12/31/02	41	10/2/03	1	
npi	nprp	77232		100	1/1/97	45	12/31/02	41	10/2/03	1	
npi	nprp	77233		100	1/1/97	45	12/31/02	41	10/2/03	1	
npi	nprp	77234		80	1/1/97	36	12/31/02	33	10/2/03	1	
npi	nprp	77236		100	1/1/97	45	12/31/02	41	10/2/03	1	
npi	nprp	77242		100	1/1/97	45	12/31/02	41	10/2/03	1	
npi	nprp	77244		100	1/1/97	45	12/31/02	41	10/2/03	1	
npi	nprp	77245		90	1/1/97	41	12/31/02	37	10/2/03	1	
npi	nprp	77248		90	1/1/97	41	12/31/02	37	10/2/03	1	
npi	nprp	77250		100	1/1/97	45	12/31/02	41	10/2/03	1	
npi	nprp	77256		100	1/1/97	45	12/31/02	41	10/2/03	1	
npi	nprp	77257		90	1/1/97	41	12/31/02	37	10/2/03	1	

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manuf	model	serialno	slugno	curies	cideate	cicalcinv1	cicalcdt1	cicalcinv2	cicalcdt2	countinv	locate
npi	nprp	77260		100	1/1/97	45	12/31/02	41	10/2/03	1	
npi	nprp	77263		110	1/1/97	50	12/31/02	45	10/2/03	1	
npi	nprp	77266		130	1/1/97	59	12/31/02	54	10/2/03	1	
npi	nprp	77269		100	1/1/97	45	12/31/02	41	10/2/03	1	
npi	nprp	77270		80	1/1/97	36	12/31/02	33	10/2/03	1	
npi	nprp	77271		140	1/1/97	64	12/31/02	58	10/2/03	1	
npi	nprp	77274		100	1/1/97	45	12/31/02	41	10/2/03	1	
npi	nprp	77278		100	1/1/97	45	12/31/02	41	10/2/03	1	
npi	nprp	77279		140	1/1/97	64	12/31/02	58	10/2/03	1	
npi	nprp	77280		100	1/1/97	45	12/31/02	41	10/2/03	1	
npi	nprp	77283		110	1/1/97	50	12/31/02	45	10/2/03	1	
npi	nprp	77287		110	1/1/97	50	12/31/02	45	10/2/03	1	
npi	nprp	77289		100	1/1/97	45	12/31/02	41	10/2/03	1	
npi	nprp	77292		140	1/1/97	64	12/31/02	58	10/2/03	1	
npi	nprp	77294		160	1/1/97	73	12/31/02	66	10/2/03	1	
npi	nprp	77295		130	1/1/97	59	12/31/02	54	10/2/03	1	
npi	nprp	77296		160	1/1/97	73	12/31/02	66	10/2/03	1	
npi	nprp	77298		120	1/1/97	55	12/31/02	49	10/2/03	1	
npi	nprp	77299		100	1/1/97	45	12/31/02	41	10/2/03	1	
npi	nprp	77300		140	1/1/97	64	12/31/02	58	10/2/03	1	
npi	nprp	77301		180	1/1/97	82	12/31/02	74	10/2/03	1	
npi	nprp	77303		120	1/1/97	55	12/31/02	49	10/2/03	1	
npi	nprp	77308		100	1/1/97	45	12/31/02	41	10/2/03	1	
npi	nprp	77313		100	1/1/97	45	12/31/02	41	10/2/03	1	
npi	nprp	77317		130	1/1/97	59	12/31/02	41	10/2/03	1	
npi	nprp	77318		160	1/1/97	73	12/31/02	54	10/2/03	1	
npi	nprp	77319		290	1/1/97	132	12/31/02	66	10/2/03	1	
npi	nprp	77320		130	1/1/97	59	12/31/02	119	10/2/03	1	
npi	nprp	77321		150	1/1/97	68	12/31/02	54	10/2/03	1	
npi	nprp	77323		180	1/1/97	82	12/31/02	62	10/2/03	1	
npi	nprp	79210		320	7/1/95	119	12/31/02	74	10/2/03	1	
npi	nprp	79211		310	7/1/95	116	12/31/02	108	10/2/03	1	
npi	nprp	79212		340	7/1/95	127	12/31/02	105	10/2/03	1	
npi	nprp	79213		330	7/1/95	123	12/31/02	115	10/2/03	1	
npi	nprp	79214		330	7/1/95	123	12/31/02	111	10/2/03	1	
npi	nprp	79215		350	7/1/95	131	12/31/02	111	10/2/03	1	
npi	nprp	79216		1	5/12/93	0	12/31/02	118	10/2/03	1	
npi	nprp	79218		1	5/12/93	0	12/31/02	0	10/2/03	1	
npi	nprp	79219		1	5/12/93	0	12/31/02	0	10/2/03	1	
npi	nprp	79220		400	5/1/96	166	12/31/02	151	10/2/03	1	
npi	nprp	79221		1	5/12/93	0	12/31/02	0	10/2/03	1	

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manuf	model	serialno	slugno	curies	codate	cicalcinv1	cicalcdate1	cicalcinv2	cicalcdate2	countinv	locate
npi	nprp	79222		1	5/12/93	0	12/31/02	0	10/2/03	1	
npi	nprp	79223		1	5/12/93	0	12/31/02	0	10/2/03	1	
npi	nprp	79224		1	5/12/93	0	12/31/02	0	10/2/03	1	
npi	nprp	79225		1	5/12/93	0	12/31/02	0	10/2/03	1	
npi	nprp	79226		1	5/12/93	0	12/31/02	0	10/2/03	1	
npi	nprp	79227		1	5/12/93	0	12/31/02	0	10/2/03	1	
npi	nprp	79228		1	5/12/93	0	12/31/02	0	10/2/03	1	
npi	nprp	79229		1	5/12/93	0	12/31/02	0	10/2/03	1	
npi	nprp	79230		1	5/12/93	0	12/31/02	0	10/2/03	1	
npi	nprp	79231		1	5/12/93	0	12/31/02	0	10/2/03	1	
npi	nprp	80012		465	6/1/97	223	12/31/02	202	10/2/03	1	
npi	nprp	80017		386	6/1/97	185	12/31/02	168	10/2/03	1	
npi	nprp	80018		380	5/1/96	158	12/31/02	143	10/2/03	1	
npi	nprp	80021		320	7/1/95	119	12/31/02	108	10/2/03	1	
npi	nprp	80022		380	5/1/96	158	12/31/02	143	10/2/03	1	
npi	nprp	80023		310	7/1/95	116	12/31/02	105	10/2/03	1	
npi	nprp	81001		1,410	10/1/97	707	12/31/02	640	10/2/03	1	
npi	nprp	81002		1,280	10/1/97	642	12/31/02	581	10/2/03	1	
npi	nprp	81003		1,440	10/1/97	722	12/31/02	654	10/2/03	1	
npi	nprp	81004		1,370	10/1/97	687	12/31/02	622	10/2/03	1	
npi	nprp	81005		1,340	10/1/97	672	12/31/02	609	10/2/03	1	
npi	nprp	81006		1,310	10/1/97	657	12/31/02	595	10/2/03	1	
npi	nprp	81007		1,210	10/1/97	607	12/31/02	550	10/2/03	1	
npi	nprp	81008		1,470	10/1/97	737	12/31/02	668	10/2/03	1	
npi	nprp	81009		1,240	10/1/97	622	12/31/02	563	10/2/03	1	
npi	nprp	81010		1,210	10/1/97	607	12/31/02	550	10/2/03	1	
npi	nprp	81011		1,410	10/1/97	707	12/31/02	640	10/2/03	1	
npi	nprp	81012		1,800	10/1/97	903	12/31/02	817	10/2/03	1	
npi	nprp	81013		1,340	10/1/97	672	12/31/02	609	10/2/03	1	
npi	nprp	81014		1,440	10/1/97	722	12/31/02	654	10/2/03	1	
npi	nprp	81015		1,370	10/1/97	687	12/31/02	622	10/2/03	1	
npi	nprp	81016		1,560	10/1/97	782	12/31/02	708	10/2/03	1	
npi	nprp	81017		1,540	10/1/97	772	12/31/02	699	10/2/03	1	
npi	nprp	81018		1,540	10/1/97	772	12/31/02	699	10/2/03	1	
npi	nprp	81019		1,050	10/1/97	527	12/31/02	477	10/2/03	1	
npi	nprp	81020		1,240	10/1/97	622	12/31/02	563	10/2/03	1	
npi	nprp	81021		1,400	10/1/97	702	12/31/02	636	10/2/03	1	
npi	nprp	81022		1,410	10/1/97	707	12/31/02	640	10/2/03	1	
npi	nprp	81023		1,310	10/1/97	657	12/31/02	595	10/2/03	1	
npi	nprp	81024		1,600	10/1/97	802	12/31/02	727	10/2/03	1	
npi	nprp	81025		1,540	10/1/97	772	12/31/02	699	10/2/03	1	

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manuf	model	serialno	slugno	curies	cideate	cicalcinv1	cicalcdtate1	cicalcinv2	cicalcdtate2	countinv	locate
npi	nprp	81026		1,670	10/1/97	838	12/31/02	758	10/2/03	1	
npi	nprp	81027		1,180	10/1/97	592	12/31/02	536	10/2/03	1	
npi	nprp	81028		1,470	10/1/97	737	12/31/02	668	10/2/03	1	
npi	nprp	81029		1,410	10/1/97	707	12/31/02	640	10/2/03	1	
npi	nprp	81030		1,150	10/1/97	577	12/31/02	522	10/2/03	1	
npi	nprp	81031		1,340	10/1/97	672	12/31/02	609	10/2/03	1	
npi	nprp	81032		1,440	10/1/97	722	12/31/02	654	10/2/03	1	
npi	nprp	81033		1,500	10/1/97	752	12/31/02	681	10/2/03	1	
npi	nprp	81034		1,600	10/1/97	802	12/31/02	727	10/2/03	1	
npi	nprp	81035		1,340	10/1/97	672	12/31/02	609	10/2/03	1	
npi	nprp	81036		1,670	10/1/97	838	12/31/02	758	10/2/03	1	
npi	nprp	81037		1,340	10/1/97	672	12/31/02	609	10/2/03	1	
npi	nprp	81038		1,600	10/1/97	802	12/31/02	727	10/2/03	1	
npi	nprp	81040		1,410	10/1/97	707	12/31/02	640	10/2/03	1	
npi	nprp	81041		1,540	10/1/97	772	12/31/02	699	10/2/03	1	
npi	nprp	81042		1,310	10/1/97	657	12/31/02	595	10/2/03	1	
npi	nprp	81043		1,180	10/1/97	592	12/31/02	536	10/2/03	1	
npi	nprp	81044		1,240	10/1/97	622	12/31/02	563	10/2/03	1	
npi	nprp	81046		1,570	10/1/97	787	12/31/02	713	10/2/03	1	
npi	nprp	81047		1,540	10/1/97	772	12/31/02	699	10/2/03	1	
npi	nprp	81048		1,410	10/1/97	707	12/31/02	640	10/2/03	1	
npi	nprp	81049		1,800	10/1/97	903	12/31/02	817	10/2/03	1	
npi	nprp	81050		1,280	10/1/97	642	12/31/02	581	10/2/03	1	
npi	nprp	81051		1,410	10/1/97	707	12/31/02	640	10/2/03	1	
npi	nprp	81052		1,700	10/1/97	853	12/31/02	772	10/2/03	1	
npi	nprp	81053		1,340	10/1/97	672	12/31/02	609	10/2/03	1	
npi	nprp	81054		1,670	10/1/97	838	12/31/02	758	10/2/03	1	
npi	nprp	81055		1,670	10/1/97	838	12/31/02	758	10/2/03	1	
npi	nprp	81056		1,410	10/1/97	707	12/31/02	640	10/2/03	1	
npi	nprp	81057		1,640	10/1/97	822	12/31/02	745	10/2/03	1	
npi	nprp	81058		1,180	10/1/97	592	12/31/02	536	10/2/03	1	
npi	nprp	81059		1,470	10/1/97	737	12/31/02	668	10/2/03	1	
npi	nprp	81060		1,470	10/1/97	737	12/31/02	668	10/2/03	1	
npi	nprp	81061		1,470	10/1/97	737	12/31/02	668	10/2/03	1	
npi	nprp	81062		1,600	10/1/97	802	12/31/02	727	10/2/03	1	
npi	nprp	81063		1,370	10/1/97	687	12/31/02	622	10/2/03	1	
npi	nprp	81064		1,470	10/1/97	737	12/31/02	668	10/2/03	1	
npi	nprp	81065		1,440	10/1/97	722	12/31/02	654	10/2/03	1	
npi	nprp	81066		380	5/1/96	158	12/31/02	143	10/2/03	1	
npi	nprp	81066		1,500	10/1/97	752	12/31/02	681	10/2/03	1	
npi	nprp	81067		351	6/1/97	168	12/31/02	153	10/2/03	1	

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manuf	model	serialno	slugno	curies	cidate	cicalcinv1	cicalcdt1	cicalcinv2	cicalcdt2	countinv	locate
npi	nprp	81067		1,180	10/1/97	592	12/31/02	536	10/2/03	1	
npi	nprp	81068		1,770	10/1/97	888	12/31/02	804	10/2/03	1	
npi	nprp	81069		344	6/1/97	165	12/31/02	150	10/2/03	1	
npi	nprp	81069		1,240	10/1/97	622	12/31/02	563	10/2/03	1	
npi	nprp	81070		344	6/1/97	165	12/31/02	150	10/2/03	1	
npi	nprp	81070		1,440	10/1/97	722	12/31/02	654	10/2/03	1	
npi	nprp	81071		380	5/1/96	158	12/31/02	143	10/2/03	1	
npi	nprp	81071		1,500	10/1/97	752	12/31/02	681	10/2/03	1	
npi	nprp	81072		339	6/1/97	163	12/31/02	147	10/2/03	1	
npi	nprp	81072		1,470	10/1/97	737	12/31/02	668	10/2/03	1	
npi	nprp	81073		338	6/1/97	162	12/31/02	147	10/2/03	1	
npi	nprp	81073		1,140	10/1/97	572	12/31/02	518	10/2/03	1	
npi	nprp	81074		376	6/1/97	180	12/31/02	163	10/2/03	1	
npi	nprp	81074		1,640	10/1/97	822	12/31/02	745	10/2/03	1	
npi	nprp	81075		359	6/1/97	172	12/31/02	156	10/2/03	1	
npi	nprp	81075		1,140	10/1/97	572	12/31/02	518	10/2/03	1	
npi	nprp	81076		370	5/1/96	154	12/31/02	139	10/2/03	1	
npi	nprp	81077		366	6/1/97	176	12/31/02	159	10/2/03	1	
npi	nprp	81077		1,860	10/1/97	933	12/31/02	845	10/2/03	1	
npi	nprp	81078		1,280	10/1/97	642	12/31/02	581	10/2/03	1	
npi	nprp	81079		1,440	10/1/97	722	12/31/02	654	10/2/03	1	
npi	nprp	81081		345	6/1/97	166	12/31/02	150	10/2/03	1	
npi	nprp	81082		390	5/1/96	162	12/31/02	147	10/2/03	1	
npi	nprp	81083		390	5/1/96	162	12/31/02	147	10/2/03	1	
npi	nprp	81084		390	5/1/96	162	12/31/02	147	10/2/03	1	
npi	nprp	81088		344	6/1/97	165	12/31/02	150	10/2/03	1	
npi	nprp	81089		344	6/1/97	165	12/31/02	150	10/2/03	1	
npi	nprp	81093		347	6/1/97	167	12/31/02	151	10/2/03	1	
npi	nprp	81103		385	6/1/97	185	12/31/02	167	10/2/03	1	
npi	nprp	8491		6,890	9/1/84	619	12/31/02	560	10/2/03	1	
npi	nprp	8492		8,260	9/1/84	742	12/31/02	672	10/2/03	1	
npi	nprp	8493		7,010	9/1/84	629	12/31/02	570	10/2/03	1	
npi	nprp	8494		6,230	9/1/84	559	12/31/02	507	10/2/03	1	
npi	nprp	86101		1,050	11/20/97	536	12/31/02	486	10/2/03	1	
npi	nprp	86102		990	11/20/97	506	12/31/02	458	10/2/03	1	
npi	nprp	86103		1,030	11/20/97	526	12/31/02	476	10/2/03	1	
npi	nprp	86104		1,050	11/20/97	536	12/31/02	486	10/2/03	1	
npi	nprp	86105		1,070	11/20/97	546	12/31/02	495	10/2/03	1	
npi	nprp	86106		1,050	11/20/97	536	12/31/02	486	10/2/03	1	
npi	nprp	86107		950	11/20/97	485	12/31/02	439	10/2/03	1	
npi	nprp	86108		990	11/20/97	506	12/31/02	458	10/2/03	1	

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manuf	model	serialno	slugno	curies	cideate	cicalcinv1	cicalcdate1	cicalcinv2	cicalcdate2	countinv	locate
npi	nprp	91309	68	1,426	9/9/99	923	12/31/02	836	10/2/03	1	
npi	nprp	91310	69	1,479	9/9/99	957	12/31/02	867	10/2/03	1	
npi	nprp	91311	70	1,430	9/9/99	925	12/31/02	838	10/2/03	1	
npi	nprp	91519		9,070	10/1/91	2,066	12/31/02	1,871	10/2/03	1	
npi	nprp	92070		1,360	1/1/97	618	12/31/02	560	10/2/03	1	
npi	nprp	92071		1,360	1/1/97	618	12/31/02	560	10/2/03	1	
npi	nprp	92072		1,170	1/1/97	532	12/31/02	482	10/2/03	1	
npi	nprp	92073		1,020	1/1/97	464	12/31/02	420	10/2/03	1	
npi	nprp	92074		1,090	1/1/97	495	12/31/02	449	10/2/03	1	
npi	nprp	92075		1,020	1/1/97	464	12/31/02	420	10/2/03	1	
npi	nprp	92076		1,020	1/1/97	464	12/31/02	420	10/2/03	1	
npi	nprp	92077		1,060	1/1/97	482	12/31/02	436	10/2/03	1	
npi	nprp	92078		1,170	1/1/97	532	12/31/02	482	10/2/03	1	
npi	nprp	94965		8,600	9/1/94	2,876	12/31/02	2,604	10/2/03	1	
npi	nptt	?	881184	1,017	12/1/95	401	12/31/02	363	10/2/03	1	
npi	nptt	RT78		120	11/1/97	61	12/31/02	55	10/2/03	1	
npi	nptt	T1012	881151	5,640	1/1/89	895	12/31/02	811	10/2/03	1	
npi	nptt	T1012	881172	4,250	1/1/89	675	12/31/02	611	10/2/03	1	
npi	nptt	T1033	891258	3,800	9/1/90	751	12/31/02	680	10/2/03	1	
npi	nptt	T1033	891259	3,990	9/1/90	788	12/31/02	714	10/2/03	1	
npi	nptt	T1040	82801	860	1/1/89	137	12/31/02	124	10/2/03	1	
npi	nptt	T1053	901275	3,817	1/1/95	1,334	12/31/02	1,208	10/2/03	1	
npi	nptt	T1079	84933	2,010	1/1/89	319	12/31/02	289	10/2/03	1	
npi	nptt	T1079	901283	4,950	9/1/90	978	12/31/02	886	10/2/03	1	
npi	nptt	T1081	901291	4,810	9/1/90	951	12/31/02	861	10/2/03	1	
npi	nptt	T1081	5W	1	1/1/60	0	12/31/02	0	10/2/03	1	
npi	nptt	T1095	85986	1,260	1/1/89	200	12/31/02	181	10/2/03	1	
npi	nptt	T1095	901306	4,600	9/1/90	909	12/31/02	823	10/2/03	1	
npi	nptt	T1107	81677	1,540	1/1/89	245	12/31/02	221	10/2/03	1	
npi	nptt	T1111	901282	2,440	1/1/95	853	12/31/02	772	10/2/03	1	
npi	nptt	T1145	851001	2,680	1/1/89	425	12/31/02	385	10/2/03	1	
npi	nptt	T1145	911375	5,360	7/1/91	1,181	12/31/02	1,070	10/2/03	1	
npi	nptt	T1150	911356	2,020	7/1/91	445	12/31/02	403	10/2/03	1	
npi	nptt	T1150	911366	3,340	7/1/91	736	12/31/02	667	10/2/03	1	
npi	nptt	T1151	74063	100	1/1/95	35	12/31/02	32	10/2/03	1	
npi	nptt	T1175	84949	1,360	1/1/89	216	12/31/02	196	10/2/03	1	
npi	nptt	T1175	921474	4,460	3/1/92	1,073	12/31/02	972	10/2/03	1	
npi	nptt	T1210	871080	5,700	1/1/89	905	12/31/02	819	10/2/03	1	
npi	nptt	T1212	83842	2,100	1/1/89	333	12/31/02	302	10/2/03	1	
npi	nptt	T1212	921432	3,110	3/1/92	748	12/31/02	678	10/2/03	1	
npi	nptt	T1227	85970	2,020	1/1/89	321	12/31/02	290	10/2/03	1	

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manuf	model	serialno	slugno	curies	codate	cicalcinv1	cicalcdate1	cicalcinv2	cicalcdate2	countinv	locate
npi	nptt	T1227	921457	4,810	3/1/92	1,157	12/31/02	1,048	10/2/03	1	
npi	nptt	T1232	871100	3,460	1/1/89	549	12/31/02	497	10/2/03	1	
npi	nptt	T1232	871100	3,460	1/1/89	549	12/31/02	497	10/2/03	1	
npi	nptt	T1232	921463	4,650	3/1/92	1,119	12/31/02	1,013	10/2/03	1	
npi	nptt	T1232	921463	4,650	3/1/92	1,119	12/31/02	1,013	10/2/03	1	
npi	nptt	T1236	881180	2,730	1/1/89	433	12/31/02	392	10/2/03	1	
npi	nptt	T1251	921415	5,870	3/1/92	1,412	12/31/02	1,279	10/2/03	1	
npi	nptt	T1251	921440	3,720	3/1/92	895	12/31/02	811	10/2/03	1	
npi	nptt	T1258	921431	5,450	3/1/92	1,311	12/31/02	1,188	10/2/03	1	
npi	nptt	T1259	85980	1,380	1/1/89	219	12/31/02	198	10/2/03	1	
npi	nptt	T1260	911346	4,270	7/1/91	941	12/31/02	852	10/2/03	1	
npi	nptt	T1273	931535	3,740	9/1/93	1,097	12/31/02	993	10/2/03	1	
npi	nptt	T1290	81694	1,330	1/1/89	211	12/31/02	191	10/2/03	1	
npi	nptt	T1296	891235	3,362	1/1/95	1,175	12/31/02	1,064	10/2/03	1	
npi	nptt	T1302	881165	4,720	1/1/89	749	12/31/02	679	10/2/03	1	
npi	nptt	T1302	931510	3,880	9/1/93	1,138	12/31/02	1,030	10/2/03	1	
npi	nptt	T1307	75154	480	1/1/89	76	12/31/02	69	10/2/03	1	
npi	nptt	T1311	931537	3,450	9/1/93	1,012	12/31/02	916	10/2/03	1	
npi	nptt	T1330	921414	7,541	1/1/95	2,635	12/31/02	2,386	10/2/03	1	
npi	nptt	T1336	911334	1,930	7/1/91	425	12/31/02	385	10/2/03	1	
npi	nptt	T1336	951559	3,604	6/1/95	1,330	12/31/02	1,204	10/2/03	1	
npi	nptt	T1346	891262	3,180	9/1/90	628	12/31/02	569	10/2/03	1	
npi	nptt	T1346	951580	3,822	6/1/95	1,410	12/31/02	1,277	10/2/03	1	
npi	nptt	T1349	951555	5,546	6/1/95	2,046	12/31/02	1,853	10/2/03	1	
npi	nptt	T1349	951606	2,205	6/1/95	813	12/31/02	737	10/2/03	1	
npi	nptt	T1368	951589	4,741	6/1/95	1,749	12/31/02	1,584	10/2/03	1	
npi	nptt	T1375	921405	3,510	3/1/92	845	12/31/02	765	10/2/03	1	
npi	nptt	T1398	85987	1,840	1/1/89	292	12/31/02	265	10/2/03	1	
npi	nptt	T1398	961664	3,520	1/1/96	1,403	12/31/02	1,270	10/2/03	1	
npi	nptt	T1432	951577	5,122	6/1/95	1,890	12/31/02	1,711	10/2/03	1	
npi	nptt	T1432	961663	3,680	1/1/96	1,466	12/31/02	1,328	10/2/03	1	
npi	nptt	T1456	72016	87	12/1/95	34	12/31/02	31	10/2/03	1	
npi	nptt	T1460	891260	3,930	9/1/90	777	12/31/02	703	10/2/03	1	
npi	nptt	T1460	981730	5,110	6/1/98	2,797	12/31/02	2,533	10/2/03	1	
npi	nptt	T432	6w	1	1/1/60	0	12/31/02	0	10/2/03	1	
npi	nptt	T748	79558	988	1/1/95	345	12/31/02	313	10/2/03	1	
npi	nptt	T848	861030	3,550	1/1/89	564	12/31/02	510	10/2/03	1	
npi	nptt	T848	84-6 6w	1	1/1/89	0	12/31/02	0	10/2/03	1	
npi	nptt	T934	881160	2,715	1/1/95	949	12/31/02	859	10/2/03	1	
npi	nptt		71007	90	12/1/95	35	12/31/02	32	10/2/03	1	
npi	nptt		71012	48	12/1/95	19	12/31/02	17	10/2/03	1	

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manuf	model	serialno	slugno	curies	cideate	cicalcinv1	cicalcdt1	cicalcinv2	cicalcdt2	countinv	locate
npi	nptt		72012	60	12/1/95	24	12/31/02	21	10/2/03	1	
npi	nptt		72027	97	12/1/95	38	12/31/02	35	10/2/03	1	
npi	nptt		73025	110	12/1/95	43	12/31/02	39	10/2/03	1	
npi	nptt		74041	107	12/1/95	42	12/31/02	38	10/2/03	1	
npi	nptt		74046	102	12/1/95	40	12/31/02	36	10/2/03	1	
npi	nptt		74048	99	12/1/95	39	12/31/02	35	10/2/03	1	
npi	nptt		74053	98	12/1/95	39	12/31/02	35	10/2/03	1	
npi	nptt		74055	89	12/1/95	35	12/31/02	32	10/2/03	1	
npi	nptt		74056	95	12/1/95	37	12/31/02	34	10/2/03	1	
npi	nptt		74062	95	12/1/95	37	12/31/02	34	10/2/03	1	
npi	nptt		74064	92	12/1/95	36	12/31/02	33	10/2/03	1	
npi	nptt		75141	104	12/1/95	41	12/31/02	37	10/2/03	1	
npi	nptt		75173	90	12/1/95	35	12/31/02	32	10/2/03	1	
npi	nptt		76223	261	12/1/95	103	12/31/02	93	10/2/03	1	
npi	nptt		76224	244	12/1/95	96	12/31/02	87	10/2/03	1	
npi	nptt		76230	98	12/1/95	39	12/31/02	35	10/2/03	1	
npi	nptt		77317	373	12/1/95	147	12/31/02	133	10/2/03	1	
npi	nptt		77345	73	12/1/95	29	12/31/02	26	10/2/03	1	
npi	nptt		77371	938	12/1/95	370	12/31/02	335	10/2/03	1	
npi	nptt		77372	930	12/1/95	366	12/31/02	332	10/2/03	1	
npi	nptt		77400	495	12/1/95	195	12/31/02	177	10/2/03	1	
npi	nptt		82744	1,620	12/1/95	638	12/31/02	578	10/2/03	1	
npi	nptt		82747	713	12/1/95	281	12/31/02	254	10/2/03	1	
npi	nptt		82749	708	12/1/95	279	12/31/02	253	10/2/03	1	
npi	nptt		82750	713	12/1/95	281	12/31/02	254	10/2/03	1	
npi	nptt		82751	729	12/1/95	287	12/31/02	260	10/2/03	1	
npi	nptt		82752	1,069	12/1/95	421	12/31/02	381	10/2/03	1	
npi	nptt		82753	1,076	12/1/95	424	12/31/02	384	10/2/03	1	
npi	nptt		82754	1,086	12/1/95	428	12/31/02	387	10/2/03	1	
npi	nptt		82757	1,079	12/1/95	425	12/31/02	385	10/2/03	1	
npi	nptt		82761	1,074	12/1/95	423	12/31/02	383	10/2/03	1	
npi	nptt		82763	1,073	12/1/95	423	12/31/02	383	10/2/03	1	
npi	nptt		82764	1,100	12/1/95	433	12/31/02	392	10/2/03	1	
npi	nptt		82766	1,071	12/1/95	422	12/31/02	382	10/2/03	1	
npi	nptt		82788	1,410	12/1/95	556	12/31/02	503	10/2/03	1	
npi	nptt		82827	446	12/1/95	176	12/31/02	159	10/2/03	1	
npi	nptt		83866	1	12/1/95	0	12/31/02	0	10/2/03	1	
npi	nptt		85969	775	12/1/95	305	12/31/02	277	10/2/03	1	
npi	nptt		85972	749	12/1/95	295	12/31/02	267	10/2/03	1	
npi	nptt		85988	688	12/1/95	271	12/31/02	245	10/2/03	1	
npi	nptt		85990	1,529	12/1/95	602	12/31/02	546	10/2/03	1	

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manuf	model	serialno	slugno	curies	cideate	cicalcinv1	cicalcdate1	cicalcinv2	cicalcdate2	countinv	locate
npi	nptt		851005	837	12/1/95	330	12/31/02	299	10/2/03	1	
npi	nptt		861018	1,781	12/1/95	702	12/31/02	635	10/2/03	1	
npi	nptt		861032	1,109	12/1/95	437	12/31/02	396	10/2/03	1	
npi	nptt		861067	248	12/1/95	98	12/31/02	88	10/2/03	1	
npi	nptt		881162	2,059	12/1/95	811	12/31/02	735	10/2/03	1	
npi	nptt		881197	1,881	12/1/95	741	12/31/02	671	10/2/03	1	
npi	nptt		881223	988	12/1/95	389	12/31/02	353	10/2/03	1	
npi	nptt		891236	2,863	12/1/95	1,128	12/31/02	1,022	10/2/03	1	
npi	nptt		891239	2,793	12/1/95	1,101	12/31/02	997	10/2/03	1	
npi	nptt		901281	3,249	12/1/95	1,280	12/31/02	1,159	10/2/03	1	
npi	nptt		901311	1,837	12/1/95	724	12/31/02	655	10/2/03	1	
npi	nptt		911337	1,890	7/1/91	417	12/31/02	377	10/2/03	1	
npi	nptt		911384	3,009	12/1/95	1,186	12/31/02	1,074	10/2/03	1	
npi	nptt		921404	2,260	12/1/95	891	12/31/02	806	10/2/03	1	
npi	nptt		931513	6,110	9/1/93	1,791	12/31/02	1,622	10/2/03	1	
npi	nptt		931546	2,600	9/1/93	762	12/31/02	690	10/2/03	1	
npi	nptt		951598	4,768	6/1/95	1,759	12/31/02	1,593	10/2/03	1	
npi	nptt		951607	1,985	6/1/95	732	12/31/02	663	10/2/03	1	
npi	nptt		961632	4,190	1/1/96	1,670	12/31/02	1,512	10/2/03	1	
npi	nptt		981696	5,250	6/1/98	2,874	12/31/02	2,602	10/2/03	1	
npi	nptt		981743	3,900	6/1/98	2,135	12/31/02	1,933	10/2/03	1	
npi	nptt		981744	3,850	6/1/98	2,107	12/31/02	1,908	10/2/03	1	
npi	nptt	T1194	921439	4,460	3/1/92	1,073	12/31/02	972	10/2/03	1	tx
npi	nptt	T1194	85977	1,840	1/1/89	292	12/31/02	265	10/2/03	1	tx
npi	nptt	T1001	881194	4,820	1/1/89	765	12/31/02	693	10/2/03	1	tx
npi	nptt	T1001	82776	2,120	1/1/89	337	12/31/02	305	10/2/03	1	tx
npi	nptt	T1399	901326	4,360	9/1/90	862	12/31/02	780	10/2/03	1	tx
npi	nptt	T1399	891252	4,230	9/1/90	836	12/31/02	757	10/2/03	1	tx
npi	nptt	T1115	911373	5,980	7/1/91	1,318	12/31/02	1,193	10/2/03	1	tx
npi	nptt	T1244	921473	4,530	3/1/92	1,090	12/31/02	987	10/2/03	1	tx
npi	nptt	T1244	871119	2,910	1/1/89	462	12/31/02	418	10/2/03	1	tx
npi	nptt	T1401	931508	5,610	9/1/93	1,645	12/31/02	1,490	10/2/03	1	tx
npi	nptt	T1401	85991	3,400	1/1/89	540	12/31/02	489	10/2/03	1	tx
npi	nptt	T1469	981746	4,410	6/1/98	2,414	12/31/02	2,186	10/2/03	1	tx
npi	nptt	T1469	861036	3,530	1/1/89	560	12/31/02	508	10/2/03	1	tx
npi	nptt	T1489	921401	5,300	3/1/92	1,275	12/31/02	1,155	10/2/03	1	tx
npi	nptt	T1489	921444	3,610	3/1/92	869	12/31/02	787	10/2/03	1	tx
npi	nptt	T896	871121	2,690	1/1/89	427	12/31/02	387	10/2/03	1	tx
npi	nptt	T896	79552	1,190	1/1/89	189	12/31/02	171	10/2/03	1	tx
npi	nptt	T1451	961634	4,380	1/1/96	1,745	12/31/02	1,580	10/2/03	1	tx
npi	nptt	T1451	951558	3,900	6/1/95	1,439	12/31/02	1,303	10/2/03	1	tx

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manuf	model	serialno	slugno	curies	cideate	cicalcinv1	cicalcdat1	cicalcinv2	cicalcdat2	countinv	locate
npi	nptt	T1379	951562	5,501	6/1/95	2,029	12/31/02	1,838	10/2/03	1	tx
npi	nptt	T1379	901286	3,520	9/1/90	696	12/31/02	630	10/2/03	1	tx
npi	nptt	T1226	921466	3,350	3/1/92	806	12/31/02	730	10/2/03	1	tx
npi	nptt	T1226	77361	1,130	1/1/89	179	12/31/02	162	10/2/03	1	tx
npi	nptt	T1491	981726	5,400	6/1/98	2,956	12/31/02	2,677	10/2/03	1	tx
npi	nptt	T1491	83869	1,680	1/1/89	267	12/31/02	242	10/2/03	1	tx
npi	nptt	T996	881211	4,290	1/1/89	681	12/31/02	617	10/2/03	1	
npi	nptt	T996	84908	1,530	1/1/89	243	12/31/02	220	10/2/03	1	
npi	nptt	T245	77362	2,350	1/1/89	373	12/31/02	338	10/2/03	1	
npi	nptt	T1238	921472	4,400	3/1/92	1,059	12/31/02	959	10/2/03	1	
npi	nptt	T1238	871109	2,850	1/1/89	452	12/31/02	410	10/2/03	1	
npi	nptt	T1271	931516	4,710	9/1/93	1,381	12/31/02	1,251	10/2/03	1	tx
npi	nptt	T1271	861027	3,050	1/1/89	484	12/31/02	438	10/2/03	1	tx
npi	nptt	T1293	931505	5,740	9/1/93	1,683	12/31/02	1,524	10/2/03	1	tx
npi	nptt	T1293	861068	920	1/1/89	146	12/31/02	132	10/2/03	1	tx
npi	rodlets	01-72cut		7,433	12/1/01	6,448	12/31/02	5,839	10/2/03	1	
npi	srw	T762	8W(SR-1-L)	1	1/1/60	0	12/31/02	0	10/2/03	1	
Picker	C137	PX-85		2,000	9/23/64	13	12/31/02	12	10/2/03	1	
picker		PX2145		99	5/1/97	47	12/31/02	43	10/2/03	1	
sieman	CAESA	?		1,200	1/1/97	545	12/31/02	494	10/2/03	1	
thera	thera	S3925		813	5/1/01	653	12/31/02	591	10/2/03	1	
thera	thera	S4049		930	5/1/01	747	12/31/02	676	10/2/03	1	
thera	thera	S4389		1,547	6/1/01	1,256	12/31/02	1,138	10/2/03	1	
thera	thera	S4926		2,780	8/8/01	2,314	12/31/02	2,095	10/2/03	1	
thera	thera	S4987		4,560	9/15/01	3,847	12/31/02	3,484	10/2/03	1	
thera	thera	S2801		430	2/21/02	384	12/31/02	348	10/2/03	1	tx
thera	thera	S4040		980	3/19/02	884	12/31/02	800	10/2/03	1	tx
thera	thera	S4738		2,480	4/1/02	2,247	12/31/02	2,035	10/2/03	1	tx
thera	thera	S4392		1,340	4/4/02	1,215	12/31/02	1,101	10/2/03	1	tx
thera	thera	S5223		590	7/9/02	554	12/31/02	502	10/2/03	1	tx
thera	thera	S4117		5,778	6/8/88	851	12/31/02	771	10/2/03	1	tx
thera	thera	S4428		1,200	8/4/98	672	12/31/02	609	10/2/03	1	tx
thera	thera	S4033		1,200	3/25/99	731	12/31/02	662	10/2/03	1	
theratronics	?	?		535	6/10/98	294	12/31/02	266	10/2/03	1	
theratronics	C146	S4239		5,171	3/29/89	847	12/31/02	767	10/2/03	1	
theratronics	c146	S4311		11,810	11/3/99	7,795	12/31/02	7,059	10/2/03	1	
theratronics	C146	S4428		7,273	2/8/91	1,522	12/31/02	1,379	10/2/03	1	
theratronics	C146	S4622		3,330	3/1/98	1,763	12/31/02	1,597	10/2/03	1	
theratronics	rp	103		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	104		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	107		1	5/1/96	0	12/31/02	0	10/2/03	1	

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manuf	model	serialno	slugno	curies	cdate	cicalcinv1	cicalcdt1	cicalcinv2	cicalcdt2	countinv	locate
theratronics	rp	10716		1,490	6/1/94	482	12/31/02	436	10/2/03	1	
theratronics	rp	109		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	118		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	120		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	123		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	12715		1,150	1/1/95	402	12/31/02	364	10/2/03	1	
theratronics	rp	12831		1,330	7/1/95	496	12/31/02	449	10/2/03	1	
theratronics	rp	129		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	130		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	13032		845	3/1/93	232	12/31/02	210	10/2/03	1	
theratronics	rp	13165		1,980	7/1/95	738	12/31/02	669	10/2/03	1	
theratronics	rp	13166		1,930	7/1/95	720	12/31/02	652	10/2/03	1	
theratronics	rp	13173		2,240	7/1/95	835	12/31/02	756	10/2/03	1	
theratronics	rp	13174		1,880	7/1/95	701	12/31/02	635	10/2/03	1	
theratronics	rp	13177		1,850	7/1/95	690	12/31/02	625	10/2/03	1	
theratronics	rp	132		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	134		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	137		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	139		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	13993		1,280	7/1/95	477	12/31/02	432	10/2/03	1	
theratronics	rp	13995		1,260	7/1/95	470	12/31/02	425	10/2/03	1	
theratronics	rp	13996		1,280	7/1/95	477	12/31/02	432	10/2/03	1	
theratronics	rp	140		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	14001		1,270	7/1/95	474	12/31/02	429	10/2/03	1	
theratronics	rp	14006		1,260	7/1/95	470	12/31/02	425	10/2/03	1	
theratronics	rp	14008		1,270	7/1/95	474	12/31/02	429	10/2/03	1	
theratronics	rp	14009		1,280	7/1/95	477	12/31/02	432	10/2/03	1	
theratronics	rp	14010		1,300	7/1/95	485	12/31/02	439	10/2/03	1	
theratronics	rp	14011		1,270	7/1/95	474	12/31/02	429	10/2/03	1	
theratronics	rp	14013		1,310	7/1/95	489	12/31/02	442	10/2/03	1	
theratronics	rp	14017		1,270	7/1/95	474	12/31/02	429	10/2/03	1	
theratronics	rp	14018		1,270	7/1/95	474	12/31/02	429	10/2/03	1	
theratronics	rp	14023		1,270	7/1/95	474	12/31/02	429	10/2/03	1	
theratronics	rp	14041		1,250	7/1/95	466	12/31/02	422	10/2/03	1	
theratronics	rp	14053		1,320	7/1/95	492	12/31/02	446	10/2/03	1	
theratronics	rp	14057		1,300	7/1/95	485	12/31/02	439	10/2/03	1	
theratronics	rp	14058		1,270	7/1/95	474	12/31/02	429	10/2/03	1	
theratronics	rp	14064		1,260	7/1/95	470	12/31/02	425	10/2/03	1	
theratronics	rp	14069		1,270	7/1/95	474	12/31/02	429	10/2/03	1	
theratronics	rp	14073		1,270	7/1/95	474	12/31/02	429	10/2/03	1	
theratronics	rp	14074		1,270	7/1/95	474	12/31/02	429	10/2/03	1	

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manuf	model	serialno	slugno	curies	cideate	cicalcinv1	cicalcdtate1	cicalcinv2	cicalcdtate2	countinv	locate
theratronics	rp	141		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	144		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	148		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	149		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	150		1,770	7/1/95	660	12/31/02	598	10/2/03	1	
theratronics	rp	151		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	152		1,120	7/1/94	366	12/31/02	332	10/2/03	1	
theratronics	rp	152		1,030	7/1/95	384	12/31/02	348	10/2/03	1	
theratronics	rp	152		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	15220		1,090	10/1/94	368	12/31/02	334	10/2/03	1	
theratronics	rp	154		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	156		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	157		1,150	7/1/94	376	12/31/02	341	10/2/03	1	
theratronics	rp	157		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	158		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	159		1,230	7/1/95	459	12/31/02	415	10/2/03	1	
theratronics	rp	159		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	161		3,870	7/1/95	1,443	12/31/02	1,307	10/2/03	1	
theratronics	rp	161		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	162		3,840	7/1/95	1,432	12/31/02	1,297	10/2/03	1	
theratronics	rp	162		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	163		4,130	7/1/95	1,540	12/31/02	1,395	10/2/03	1	
theratronics	rp	163		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	164		4,180	7/1/95	1,559	12/31/02	1,412	10/2/03	1	
theratronics	rp	164		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	165		3,930	7/1/95	1,466	12/31/02	1,327	10/2/03	1	
theratronics	rp	166		3,970	7/1/95	1,480	12/31/02	1,341	10/2/03	1	
theratronics	rp	167		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	168		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	169		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	170		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	172		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	173		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	174		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	176		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	177		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	179		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	17915		1,600	10/1/94	541	12/31/02	490	10/2/03	1	
theratronics	rp	17985		2,090	1/1/95	730	12/31/02	661	10/2/03	1	
theratronics	rp	180		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	184		1	5/1/96	0	12/31/02	0	10/2/03	1	

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manuf	model	serialno	slugno	curies	codate	cicalcinv1	cicalcdtate1	cicalcinv2	cicalcdtate2	countinv	locate
theratronics	rp	186		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	187		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	194		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	195		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	198		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	199		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	205		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	207		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	210		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	212		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	213		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	214		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	21531		1,480	10/1/94	500	12/31/02	453	10/2/03	1	
theratronics	rp	21541		370	7/1/94	121	12/31/02	110	10/2/03	1	
theratronics	rp	217		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	218		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	22056		1,420	10/1/94	480	12/31/02	435	10/2/03	1	
theratronics	rp	22061		1,330	7/1/95	496	12/31/02	449	10/2/03	1	
theratronics	rp	22062		1,310	7/1/95	489	12/31/02	442	10/2/03	1	
theratronics	rp	22064		1,290	7/1/95	481	12/31/02	436	10/2/03	1	
theratronics	rp	222		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	223		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	224		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	227		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	228		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	230		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	235		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	237		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	238		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	240		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	241		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	24258		1,350	7/1/94	441	12/31/02	400	10/2/03	1	
theratronics	rp	243		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	247		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	251		1,000	7/1/95	373	12/31/02	338	10/2/03	1	
theratronics	rp	251		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	252		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	255		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	259		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	26053		4,480	10/1/94	1,514	12/31/02	1,371	10/2/03	1	
theratronics	rp	262		1	5/1/96	0	12/31/02	0	10/2/03	1	

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manuf	model	serialno	slugno	curies	codate	cicalcinv1	cicalcdat1	cicalcinv2	cicalcdat2	countinv	locate
thertronics	rp	267		1	5/1/96	0	12/31/02	0	10/2/03	1	
thertronics	rp	268		1	5/1/96	0	12/31/02	0	10/2/03	1	
thertronics	rp	273		1	5/1/96	0	12/31/02	0	10/2/03	1	
thertronics	rp	275		1	5/1/96	0	12/31/02	0	10/2/03	1	
thertronics	rp	276		1	5/1/96	0	12/31/02	0	10/2/03	1	
thertronics	rp	277		1	5/1/96	0	12/31/02	0	10/2/03	1	
thertronics	rp	285		1	5/1/96	0	12/31/02	0	10/2/03	1	
thertronics	rp	286		1	5/1/96	0	12/31/02	0	10/2/03	1	
thertronics	rp	290		1	5/1/96	0	12/31/02	0	10/2/03	1	
thertronics	rp	291		1	5/1/96	0	12/31/02	0	10/2/03	1	
thertronics	rp	293		1	5/1/96	0	12/31/02	0	10/2/03	1	
thertronics	rp	297		1	5/1/96	0	12/31/02	0	10/2/03	1	
thertronics	rp	302		1	5/1/96	0	12/31/02	0	10/2/03	1	
thertronics	rp	304		1	5/1/96	0	12/31/02	0	10/2/03	1	
thertronics	rp	305		1	5/1/96	0	12/31/02	0	10/2/03	1	
thertronics	rp	306		1	5/1/96	0	12/31/02	0	10/2/03	1	
thertronics	rp	309		1	5/1/96	0	12/31/02	0	10/2/03	1	
thertronics	rp	310		1	5/1/96	0	12/31/02	0	10/2/03	1	
thertronics	rp	311		1	5/1/96	0	12/31/02	0	10/2/03	1	
thertronics	rp	312		1	5/1/96	0	12/31/02	0	10/2/03	1	
thertronics	rp	314		1	5/1/96	0	12/31/02	0	10/2/03	1	
thertronics	rp	315		1	5/1/96	0	12/31/02	0	10/2/03	1	
thertronics	rp	322		1	5/1/96	0	12/31/02	0	10/2/03	1	
thertronics	rp	33		3,840	7/1/95	1,432	12/31/02	1,297	10/2/03	1	
thertronics	rp	34		3,800	7/1/95	1,417	12/31/02	1,283	10/2/03	1	
thertronics	rp	35		3,700	7/1/95	1,380	12/31/02	1,249	10/2/03	1	
thertronics	rp	358		1,270	7/1/94	415	12/31/02	376	10/2/03	1	
thertronics	rp	359		1,330	7/1/94	435	12/31/02	394	10/2/03	1	
thertronics	rp	36		4,160	7/1/95	1,551	12/31/02	1,405	10/2/03	1	
thertronics	rp	360		1,260	7/1/94	412	12/31/02	373	10/2/03	1	
thertronics	rp	367		1,310	7/1/94	428	12/31/02	388	10/2/03	1	
thertronics	rp	368		1,260	10/1/94	426	12/31/02	386	10/2/03	1	
thertronics	rp	369		1,280	7/1/94	419	12/31/02	379	10/2/03	1	
thertronics	rp	371		1,300	7/1/94	425	12/31/02	385	10/2/03	1	
thertronics	rp	372		1,250	7/1/94	409	12/31/02	370	10/2/03	1	
thertronics	rp	373		1,270	7/1/94	415	12/31/02	376	10/2/03	1	
thertronics	rp	375		1,250	7/1/94	409	12/31/02	370	10/2/03	1	
thertronics	rp	382		1,300	10/1/94	439	12/31/02	398	10/2/03	1	
thertronics	rp	383		160	7/1/94	52	12/31/02	47	10/2/03	1	
thertronics	rp	386		1,300	10/1/94	439	12/31/02	398	10/2/03	1	
thertronics	rp	388		1,220	10/1/94	412	12/31/02	373	10/2/03	1	

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NEUTRON PRODUCTS, INC.

manuf	model	serialno	slugno	curies	cideate	cicalcinv1	cicalcdtate1	cicalcinv2	cicalcdtate2	countinv	locate
theratronics	rp	392		1,300	10/1/94	439	12/31/02	398	10/2/03	1	
theratronics	rp	394		1,140	7/1/95	425	12/31/02	385	10/2/03	1	
theratronics	rp	471		1,050	7/1/95	392	12/31/02	355	10/2/03	1	
theratronics	rp	555		1,020	7/1/95	380	12/31/02	344	10/2/03	1	
theratronics	rp	556		1,050	7/1/95	392	12/31/02	355	10/2/03	1	
theratronics	rp	631		1,460	7/1/94	477	12/31/02	432	10/2/03	1	
theratronics	rp	633		1,380	10/1/94	466	12/31/02	422	10/2/03	1	
theratronics	rp	715		480	12/1/93	145	12/31/02	132	10/2/03	1	
theratronics	rp	717		480	12/1/93	145	12/31/02	132	10/2/03	1	
theratronics	rp	718		540	12/1/93	164	12/31/02	148	10/2/03	1	
theratronics	rp	720		480	12/1/93	145	12/31/02	132	10/2/03	1	
theratronics	rp	721		480	12/1/93	145	12/31/02	132	10/2/03	1	
theratronics	rp	722		540	12/1/93	164	12/31/02	148	10/2/03	1	
theratronics	rp	723		590	12/1/93	179	12/31/02	162	10/2/03	1	
theratronics	rp	727		380	12/1/93	115	12/31/02	104	10/2/03	1	
theratronics	rp	728		540	12/1/93	164	12/31/02	148	10/2/03	1	
theratronics	rp	729		540	12/1/93	164	12/31/02	148	10/2/03	1	
theratronics	rp	730		480	12/1/93	145	12/31/02	132	10/2/03	1	
theratronics	rp	731		540	12/1/93	164	12/31/02	148	10/2/03	1	
theratronics	rp	732		430	12/1/93	130	12/31/02	118	10/2/03	1	
theratronics	rp	733		430	12/1/93	130	12/31/02	118	10/2/03	1	
theratronics	rp	734		380	12/1/93	115	12/31/02	104	10/2/03	1	
theratronics	rp	735		480	12/1/93	145	12/31/02	132	10/2/03	1	
theratronics	rp	736		480	12/1/93	145	12/31/02	132	10/2/03	1	
theratronics	rp	737		380	12/1/93	115	12/31/02	104	10/2/03	1	
theratronics	rp	738		380	12/1/93	115	12/31/02	104	10/2/03	1	
theratronics	rp	739		480	12/1/93	145	12/31/02	132	10/2/03	1	
theratronics	rp	740		380	12/1/93	115	12/31/02	104	10/2/03	1	
theratronics	rp	741		480	12/1/93	145	12/31/02	132	10/2/03	1	
theratronics	rp	742		260	12/1/93	79	12/31/02	71	10/2/03	1	
theratronics	rp	743		430	12/1/93	130	12/31/02	118	10/2/03	1	
theratronics	rp	744		270	12/1/93	82	12/31/02	74	10/2/03	1	
theratronics	rp	745		320	12/1/93	97	12/31/02	88	10/2/03	1	
theratronics	rp	760		270	12/1/93	82	12/31/02	74	10/2/03	1	
theratronics	rp	762		270	12/1/93	82	12/31/02	74	10/2/03	1	
theratronics	rp	763		270	12/1/93	82	12/31/02	74	10/2/03	1	
theratronics	rp	764		320	12/1/93	97	12/31/02	88	10/2/03	1	
theratronics	rp	765		380	12/1/93	115	12/31/02	104	10/2/03	1	
theratronics	rp	767		480	12/1/93	145	12/31/02	132	10/2/03	1	
theratronics	rp	76761		380	12/1/93	115	12/31/02	104	10/2/03	1	
theratronics	rp	76766		540	12/1/93	164	12/31/02	148	10/2/03	1	

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**NEUTRON PRODUCTS, INC.**

manuf	model	serialno	slugno	curies	cidate	cicalcinv1	cicalcdate1	cicalcinv2	cicalcdate2	countinv	locate
theratronics	rp	768		700	12/1/93	212	12/31/02	192	10/2/03	1	
theratronics	rp	769		650	12/1/93	197	12/31/02	178	10/2/03	1	
theratronics	rp	770		590	12/1/93	179	12/31/02	162	10/2/03	1	
theratronics	rp	771		590	12/1/93	179	12/31/02	162	10/2/03	1	
theratronics	rp	77106		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	772		650	12/1/93	197	12/31/02	178	10/2/03	1	
theratronics	rp	77203		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	77253		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	77261		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	773		430	12/1/93	130	12/31/02	118	10/2/03	1	
theratronics	rp	775		480	12/1/93	145	12/31/02	132	10/2/03	1	
theratronics	rp	777		430	12/1/93	130	12/31/02	118	10/2/03	1	
theratronics	rp	778		430	12/1/93	130	12/31/02	118	10/2/03	1	
theratronics	rp	779		650	12/1/93	197	12/31/02	178	10/2/03	1	
theratronics	rp	NO ID		1,090	7/1/95	406	12/31/02	368	10/2/03	1	
theratronics		S1009		790	9/15/75	22	12/31/02	20	10/2/03	1	
theratronics		S1110		1,583	10/16/66	14	12/31/02	12	10/2/03	1	
theratronics		S1111		1,200	3/25/73	24	12/31/02	22	10/2/03	1	
theratronics		S1154		2,550	7/15/72	46	12/31/02	42	10/2/03	1	
theratronics		S1181		1,805	10/2/67	18	12/31/02	16	10/2/03	1	
theratronics		S123		2,901	12/15/74	73	12/31/02	66	10/2/03	1	
theratronics		S1392		1,936	7/7/76	60	12/31/02	54	10/2/03	1	
theratronics		S1424		1,060	1/1/76	30	12/31/02	28	10/2/03	1	
theratronics		S1447		2,694	5/1/69	32	12/31/02	29	10/2/03	1	
theratronics		S1454		1,200	6/22/73	25	12/31/02	22	10/2/03	1	
theratronics		S1462		3,085	8/1/77	109	12/31/02	99	10/2/03	1	
theratronics		S1468		1,457	2/1/77	48	12/31/02	44	10/2/03	1	
theratronics		S1472		949	6/26/75	25	12/31/02	23	10/2/03	1	
theratronics		S1530		1,386	7/26/74	33	12/31/02	30	10/2/03	1	
theratronics		S1536		694	11/10/75	20	12/31/02	18	10/2/03	1	
theratronics		S1544		2,928	8/1/76	91	12/31/02	82	10/2/03	1	
theratronics		S1579		1,018	2/5/70	13	12/31/02	12	10/2/03	1	
theratronics		S1714		2,421	3/15/71	37	12/31/02	34	10/2/03	1	
theratronics		S1724		5,570	3/1/71	85	12/31/02	77	10/2/03	1	
theratronics		S1748		1,247	9/6/75	34	12/31/02	31	10/2/03	1	
theratronics		S1769		3,641	10/15/75	102	12/31/02	92	10/2/03	1	
theratronics		S1778		1,600	8/3/74	38	12/31/02	35	10/2/03	1	
theratronics		S1802		1,342	5/1/70	18	12/31/02	17	10/2/03	1	
theratronics		S1812		1,257	12/26/77	47	12/31/02	42	10/2/03	1	
theratronics		S1823		2,437	6/16/72	44	12/31/02	40	10/2/03	1	
theratronics		S1846		8,624	2/10/72	149	12/31/02	134	10/2/03	1	

NEUTRON PRODUCTS, INC.

manuf	model	serialno	slugno	curies	cidate	cicalcinv1	cicalcdate1	cicalcinv2	cicalcdate2	countinv	locate
theratronics	S1861			3,821	5/14/72	68	12/31/02	62	10/2/03	1	
theratronics	S1883			4,175	6/15/72	75	12/31/02	68	10/2/03	1	
theratronics	S1935			7,792	9/15/72	145	12/31/02	131	10/2/03	1	
theratronics	S1946			2,386	4/15/80	120	12/31/02	109	10/2/03	1	
theratronics	S1969			4,693	1/8/73	91	12/31/02	83	10/2/03	1	
theratronics	S2003			2,740	5/17/79	123	12/31/02	111	10/2/03	1	
theratronics	S2019			1,787	1/18/80	87	12/31/02	79	10/2/03	1	
theratronics	S2022			2,475	7/1/78	99	12/31/02	89	10/2/03	1	
theratronics	S2052			6,138	7/11/73	127	12/31/02	115	10/2/03	1	
theratronics	S2069			5,392	8/20/73	113	12/31/02	103	10/2/03	1	
theratronics	S2071			2,653	8/9/73	56	12/31/02	50	10/2/03	1	
theratronics	S2086			4,606	12/3/73	101	12/31/02	91	10/2/03	1	
theratronics	S2093			5,860	12/3/73	128	12/31/02	116	10/2/03	1	
theratronics	S2107			8,996	12/28/73	198	12/31/02	180	10/2/03	1	
theratronics	S2127			1	1/1/60	0	12/31/02	0	10/2/03	1	
theratronics	S2152			4,306	12/13/79	208	12/31/02	188	10/2/03	1	
theratronics	S2181			5,445	4/15/74	125	12/31/02	113	10/2/03	1	
theratronics	S2183			6,573	4/22/74	151	12/31/02	137	10/2/03	1	
theratronics	S2193			2,420	8/10/79	112	12/31/02	101	10/2/03	1	
theratronics	S2216			2,288	5/7/74	53	12/31/02	48	10/2/03	1	
theratronics	S2220			5,478	6/12/74	128	12/31/02	116	10/2/03	1	
theratronics	S2272			5,918	9/25/74	144	12/31/02	130	10/2/03	1	
theratronics	S2287			2,110	9/30/83	168	12/31/02	152	10/2/03	1	
theratronics	S2289			3,200	12/1/79	154	12/31/02	139	10/2/03	1	
theratronics	S2297			6,252	10/23/74	154	12/31/02	139	10/2/03	1	
theratronics	S2338			1	1/1/60	0	12/31/02	0	10/2/03	1	
theratronics	S2370			1	1/1/60	0	12/31/02	0	10/2/03	1	
theratronics	S2386			7,678	6/16/75	205	12/31/02	186	10/2/03	1	
theratronics	S2388			1,516	7/15/75	41	12/31/02	37	10/2/03	1	
theratronics	S2397			1	1/1/60	0	12/31/02	0	10/2/03	1	
theratronics	S2398			1,591	1/1/96	634	12/31/02	574	10/2/03	1	
theratronics	S2456			1,509	1/1/96	601	12/31/02	544	10/2/03	1	
theratronics	S2477			5,766	2/20/76	169	12/31/02	153	10/2/03	1	
theratronics	S2512			5,889	4/2/76	175	12/31/02	158	10/2/03	1	
theratronics	S2515			3,978	11/15/81	247	12/31/02	224	10/2/03	1	
theratronics	S2528			5,740	6/8/76	175	12/31/02	158	10/2/03	1	
theratronics	S2553			4,440	7/5/76	136	12/31/02	123	10/2/03	1	
theratronics	S2590			2,359	10/1/76	75	12/31/02	68	10/2/03	1	
theratronics	S2594			8,000	10/1/76	254	12/31/02	230	10/2/03	1	
theratronics	S2603			5,871	11/18/76	189	12/31/02	171	10/2/03	1	
theratronics	S2647			3,200	8/19/82	220	12/31/02	199	10/2/03	1	

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NEUTRON PRODUCTS, INC.

manuf	model	serialno	slugno	curies	cideate	cicalcinv1	cicalcdate1	cicalcinv2	cicalcdate2	countinv	locate
thertronics	S2650			4,032	3/31/77	136	12/31/02	124	10/2/03	1	
thertronics	S2667			2,370	9/9/83	187	12/31/02	169	10/2/03	1	
thertronics	S2668			5,788	6/7/77	201	12/31/02	182	10/2/03	1	
thertronics	S2670			8,214	6/8/77	285	12/31/02	258	10/2/03	1	
thertronics	S2684			5,691	6/27/77	199	12/31/02	180	10/2/03	1	
thertronics	S2697			270	12/21/85	29	12/31/02	26	10/2/03	1	
thertronics	S2713			5,660	10/15/77	206	12/31/02	186	10/2/03	1	
thertronics	S2769			3,245	2/15/78	123	12/31/02	112	10/2/03	1	
thertronics	S2777			2,219	4/5/84	189	12/31/02	171	10/2/03	1	
thertronics	S2795			4,604	4/21/78	179	12/31/02	162	10/2/03	1	
thertronics	S2832			5,600	7/6/78	224	12/31/02	203	10/2/03	1	
thertronics	S2876			3,565	10/10/78	147	12/31/02	134	10/2/03	1	
thertronics	S2877			2,110	9/30/83	168	12/31/02	152	10/2/03	1	
thertronics	S2889			5,979	9/14/79	279	12/31/02	253	10/2/03	1	
thertronics	S2919			7,484	1/16/79	321	12/31/02	290	10/2/03	1	
thertronics	S2945			2,116	2/12/86	230	12/31/02	208	10/2/03	1	
thertronics	S2981			5,437	6/20/79	246	12/31/02	223	10/2/03	1	
thertronics	S2990			1	1/1/60	0	12/31/02	0	10/2/03	1	
thertronics	S3035			402	4/19/97	190	12/31/02	172	10/2/03	1	
thertronics	S3040			6,487	11/19/79	310	12/31/02	281	10/2/03	1	
thertronics	S3068			985	1/1/96	392	12/31/02	355	10/2/03	1	
thertronics	S3070			3,367	2/5/80	166	12/31/02	150	10/2/03	1	
thertronics	S3102			3,917	4/10/80	197	12/31/02	179	10/2/03	1	
thertronics	S3123			2,678	8/2/85	271	12/31/02	246	10/2/03	1	
thertronics	S3124			3,700	9/1/84	332	12/31/02	301	10/2/03	1	
thertronics	S3133			4,955	8/1/80	260	12/31/02	235	10/2/03	1	
thertronics	S3134			1,432	1/1/96	571	12/31/02	517	10/2/03	1	
thertronics	S3157			4,181	10/27/80	226	12/31/02	205	10/2/03	1	
thertronics	S316			1	1/1/60	0	12/31/02	0	10/2/03	1	
thertronics	S3166			3,461	10/27/80	187	12/31/02	170	10/2/03	1	
thertronics	S3169			2,789	1/31/86	302	12/31/02	273	10/2/03	1	
thertronics	S3184			3,508	11/26/80	192	12/31/02	174	10/2/03	1	
thertronics	S3190			3,535	12/17/80	195	12/31/02	177	10/2/03	1	
thertronics	S3250			4,144	4/24/81	239	12/31/02	217	10/2/03	1	
thertronics	S3301			2,534	11/2/81	157	12/31/02	142	10/2/03	1	
thertronics	S3304			1,085	1/1/96	432	12/31/02	391	10/2/03	1	
thertronics	S3326			1	1/1/60	0	12/31/02	0	10/2/03	1	
thertronics	S3354			2,330	9/13/85	240	12/31/02	217	10/2/03	1	
thertronics	S3389			1,700	4/2/87	214	12/31/02	194	10/2/03	1	
thertronics	S3409			3,332	9/9/82	231	12/31/02	209	10/2/03	1	
thertronics	S3426			1,853	1/1/96	738	12/31/02	669	10/2/03	1	

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NEUTRON PRODUCTS, INC.

manuf	model	serialno	slugno	curies	cideate	cicalcinv1	cicalcdat1	cicalcinv2	cicalcdat2	countinv	locate
thertronics		S3686		7,060	11/5/84	649	12/31/02	588	10/2/03	1	
thertronics		S3728		877	1/1/96	349	12/31/02	316	10/2/03	1	
thertronics		S3742		1	1/1/60	0	12/31/02	0	10/2/03	1	
thertronics		S3752		1,708	1/1/96	681	12/31/02	616	10/2/03	1	
thertronics		S3777		1,433	1/1/96	571	12/31/02	517	10/2/03	1	
thertronics		S3793		1,301	6/1/97	624	12/31/02	565	10/2/03	1	
thertronics		S3803		1,571	6/27/89	266	12/31/02	241	10/2/03	1	
thertronics		S3882		2,776	10/11/96	1,225	12/31/02	1,109	10/2/03	1	
thertronics		S3889		3,000	8/18/84	268	12/31/02	243	10/2/03	1	
thertronics		S3949		1,550	1/1/96	618	12/31/02	559	10/2/03	1	
thertronics		S3998		1	1/1/60	0	12/31/02	0	10/2/03	1	
thertronics		S4001		1	1/1/60	0	12/31/02	0	10/2/03	1	
thertronics		S4042		5,350	9/25/87	719	12/31/02	651	10/2/03	1	
thertronics		S4076		1,915	1/1/96	763	12/31/02	691	10/2/03	1	
thertronics		S4108		1,816	1/1/96	724	12/31/02	655	10/2/03	1	
thertronics		S4181		4,850	10/6/88	746	12/31/02	676	10/2/03	1	
thertronics		S422		1,330	10/15/67	13	12/31/02	12	10/2/03	1	
thertronics		S4277		2,674	12/30/95	1,065	12/31/02	964	10/2/03	1	
thertronics		S4294		1,700	10/5/97	854	12/31/02	773	10/2/03	1	
thertronics		S4302		2,850	11/3/96	1,268	12/31/02	1,148	10/2/03	1	
thertronics		S4339		2,903	6/1/97	1,393	12/31/02	1,262	10/2/03	1	
thertronics		S4416		7,457	1/1/91	1,540	12/31/02	2,057	10/17/00	1	
thertronics		S4424		4,293	1/1/96	1,711	12/31/02	1,549	10/2/03	1	
thertronics		S4506		1	1/1/60	0	12/31/02	0	10/2/03	1	
thertronics		S4636		4,479	7/1/97	2,173	12/31/02	1,968	10/2/03	1	
thertronics		S4643		3,350	5/31/97	1,607	12/31/02	1,455	10/2/03	1	
thertronics		S635		362	10/1/78	15	12/31/02	14	10/2/03	1	
thertronics		S675		1,340	12/15/69	17	12/31/02	16	10/2/03	1	
thertronics		S762		790	4/26/75	21	12/31/02	19	10/2/03	1	
thertronics		S80		1,100	12/29/73	24	12/31/02	22	10/2/03	1	
thertronics		S868		1,364	2/1/74	30	12/31/02	28	10/2/03	1	
thertronics		S890		1,799	4/15/65	13	12/31/02	11	10/2/03	1	
thertronics		S894		690	12/15/76	22	12/31/02	20	10/2/03	1	
thertronics		S925		1,720	11/15/68	19	12/31/02	18	10/2/03	1	
thertronics		S932		556	11/3/74	14	12/31/02	12	10/2/03	1	
thertronics		S944		1	1/1/60	0	12/31/02	0	10/2/03	1	
thertronics		S969		1	1/1/60	0	12/31/02	0	10/2/03	1	
unknown	?	?		1,160	1/1/60	4	12/31/02	4	10/2/03	1	
unknown	CIS	3244		915	8/31/97	454	12/31/02	411	10/2/03	1	
unknown		12715.2		1,150	1/1/95	402	12/31/02	364	10/2/03	1	
unknown		13032.2		845	3/1/93	232	12/31/02	210	10/2/03	1	

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NEUTRON PRODUCTS, INC.

manuf	model	serialno	slugno	curies	cideate	cicalcinv1	cicalcdate1	cicalcinv2	cicalcdate2	countinv	locate
unknown		13165		1,980	7/1/95	738	12/31/02	669	10/2/03	1	
unknown		13166		1,930	7/1/95	720	12/31/02	652	10/2/03	1	
unknown		13173		2,240	7/1/95	835	12/31/02	756	10/2/03	1	
unknown		13174		1,880	7/1/95	701	12/31/02	635	10/2/03	1	
unknown		13177		1,850	7/1/95	690	12/31/02	625	10/2/03	1	
unknown		13995		1,260	7/1/95	470	12/31/02	425	10/2/03	1	
unknown		14006		1,260	7/1/95	470	12/31/02	425	10/2/03	1	
unknown		14010		1,300	7/1/95	485	12/31/02	439	10/2/03	1	
unknown		14064		1,260	7/1/95	470	12/31/02	425	10/2/03	1	
unknown		150		1,770	7/1/95	660	12/31/02	598	10/2/03	1	
unknown		152		1,120	7/1/94	366	12/31/02	332	10/2/03	1	
unknown		159		1,230	7/1/95	459	12/31/02	415	10/2/03	1	
unknown		16991		1,570	10/1/94	531	12/31/02	481	10/2/03	1	
unknown		17915		1,600	10/1/94	541	12/31/02	490	10/2/03	1	
unknown		17985		2,090	1/1/95	730	12/31/02	661	10/2/03	1	
unknown		21541.3		370	7/1/94	121	12/31/02	110	10/2/03	1	
unknown		22056		1,420	10/1/94	480	12/31/02	435	10/2/03	1	
unknown		24258.2		1,350	7/1/94	441	12/31/02	400	10/2/03	1	
unknown		251		1,000	7/1/95	373	12/31/02	338	10/2/03	1	
unknown		26053		4,480	10/1/94	1,514	12/31/02	1,371	10/2/03	1	
unknown		383.2		160	7/1/94	52	12/31/02	47	10/2/03	1	
unknown		394		1,140	7/1/95	425	12/31/02	385	10/2/03	1	
unknown		555		1,020	7/1/95	380	12/31/02	344	10/2/03	1	
unknown		556		1,050	7/1/95	392	12/31/02	355	10/2/03	1	
unknown		631		1,460	7/1/94	477	12/31/02	432	10/2/03	1	
unknown		715		501	12/1/93	152	12/31/02	137	10/2/03	1	
unknown		717		561	12/1/93	170	12/31/02	154	10/2/03	1	
unknown		718		568	12/1/93	172	12/31/02	156	10/2/03	1	
unknown		720		520	12/1/93	158	12/31/02	143	10/2/03	1	
unknown		721		511	12/1/93	155	12/31/02	140	10/2/03	1	
unknown		722		509	12/1/93	154	12/31/02	140	10/2/03	1	
unknown		723		541	12/1/93	164	12/31/02	148	10/2/03	1	
unknown		727		436	12/1/93	132	12/31/02	120	10/2/03	1	
unknown		728		531	12/1/93	161	12/31/02	146	10/2/03	1	
unknown		729		542	12/1/93	164	12/31/02	149	10/2/03	1	
unknown		730		526	12/1/93	159	12/31/02	144	10/2/03	1	
unknown		731		561	12/1/93	170	12/31/02	154	10/2/03	1	
unknown		732		503	12/1/93	152	12/31/02	138	10/2/03	1	
unknown		733		424	12/1/93	128	12/31/02	116	10/2/03	1	
unknown		734		409	12/1/93	124	12/31/02	112	10/2/03	1	
unknown		735		507	12/1/93	154	12/31/02	139	10/2/03	1	

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NEUTRON PRODUCTS, INC.

manuf	model	serialno	slugno	curies	codate	cicalcinv1	cicalcdate1	cicalcinv2	cicalcdate2	countinv	locate
unknown		736		446	12/1/93	135	12/31/02	122	10/2/03	1	
unknown		737		421	12/1/93	128	12/31/02	116	10/2/03	1	
unknown		738		440	12/1/93	133	12/31/02	121	10/2/03	1	
unknown		739		486	12/1/93	147	12/31/02	133	10/2/03	1	
unknown		740		434	12/1/93	131	12/31/02	119	10/2/03	1	
unknown		741		502	12/1/93	152	12/31/02	138	10/2/03	1	
unknown		742		417	12/1/93	126	12/31/02	114	10/2/03	1	
unknown		743		415	12/1/93	126	12/31/02	114	10/2/03	1	
unknown		744		325	12/1/93	98	12/31/02	89	10/2/03	1	
unknown		745		363	12/1/93	110	12/31/02	100	10/2/03	1	
unknown		760		341	12/1/93	103	12/31/02	94	10/2/03	1	
unknown		761		338	12/1/93	102	12/31/02	93	10/2/03	1	
unknown		762		348	12/1/93	105	12/31/02	95	10/2/03	1	
unknown		763		319	12/1/93	97	12/31/02	88	10/2/03	1	
unknown		764		382	12/1/93	116	12/31/02	105	10/2/03	1	
unknown		765		381	12/1/93	115	12/31/02	105	10/2/03	1	
unknown		766		493	12/1/93	149	12/31/02	135	10/2/03	1	
unknown		767		513	12/1/93	155	12/31/02	141	10/2/03	1	
unknown		768		628	12/1/93	190	12/31/02	172	10/2/03	1	
unknown		769		657	12/1/93	199	12/31/02	180	10/2/03	1	
unknown		770		572	12/1/93	173	12/31/02	157	10/2/03	1	
unknown		771		545	12/1/93	165	12/31/02	150	10/2/03	1	
unknown		772		620	12/1/93	188	12/31/02	170	10/2/03	1	
unknown		773		464	12/1/93	141	12/31/02	127	10/2/03	1	
unknown		775		474	12/1/93	144	12/31/02	130	10/2/03	1	
unknown		777		431	12/1/93	131	12/31/02	118	10/2/03	1	
unknown		778		827	12/1/93	251	12/31/02	227	10/2/03	1	
unknown		779		604	12/1/93	183	12/31/02	166	10/2/03	1	
unknown	CEA3612			3,000	10/11/83	240	12/31/02	217	10/2/03	1	
unknown	noid			1,090	7/1/95	406	12/31/02	368	10/2/03	1	
usnuc	W550			82	8/15/96	35	12/31/02	32	10/2/03	1	
	AMS2615			650	9/1/02	622	12/31/02	564	10/2/03	1	tx
	GET-20-205			634	1/1/99	375	12/31/02	339	10/2/03	1	
x	x	x	x	x	x	378,149	x	343,092	x	935	x

NPI

NOTE: THIS INVENTORY DOES NOT INCLUDE THE DI LUMINITY  
SOURCE PLARVE.

irradinv02

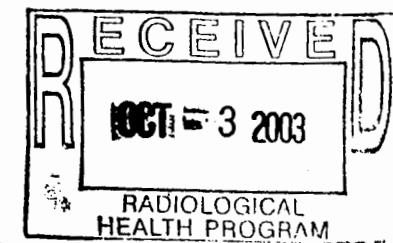
NEUTRON PRODUCTS, INC.

COBALT-60 IN IRRADIATORS

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irrad	recdate	recfrom	manuf	model	serialno	slugno	ci	cdate	shipdate	shipto:hiptoname	split	tto
d1	11/13/01 d2	npi	nprp		973		11,300	12/1/01				
d1	11/13/01 d2	npi	nprp		972		10,500	12/1/01				
d1	11/13/01 d2	npi	nprp		9666		8,600	12/1/01				
d1	11/13/01 d2	npi	nprp		92401		11,300	12/1/01				
d1	11/13/01 d2	npi	nprp		923		8,900	12/1/01				
d1	11/13/01 rdp01.4	npi	nprp		0191		4,000	12/1/01				
d1	11/13/01 rdp01.4	npi	nprp		0190		4,200	12/1/01				
d1	11/13/01 rdp01.3	npi	nprp		0189		3,200	12/1/01				
d1	11/13/01 rdp01.3	npi	nprp		0188		2,700	12/1/01				
d1	11/13/01 rdp01.3	npi	nprp		0187		2,700	12/1/01				
d1	11/13/01 rdp01.3	npi	nprp		0186		3,000	12/1/01				
d1	11/13/01 rdp01.3	npi	nprp		0185		4,500	12/1/01				
d1	11/13/01 rdp01.3	npi	nprp		0184		4,200	12/1/01				
d1	11/13/01 rdp01.2	npi	nprp		01114		1,600	12/1/01			2	11
d1	11/13/01 rdp01.2	npi	nprp		01113		1,600	12/1/01				
d1	11/13/01 rdp01.2	npi	nprp		01112		1,600	12/1/01				
d1	11/13/01 rdp01.2	npi	nprp		01111		1,700	12/1/01				
d1	11/13/01 rdp01.2	npi	nprp		01110		1,500	12/1/01				
d1	11/13/01 rdp01.2	npi	nprp		01109		1,300	12/1/01				
d1	11/13/01 rdp01.2	npi	nprp		01108		1,600	12/1/01				
d1	11/13/01 rdp01.2	npi	nprp		01107		1,600	12/1/01				
d1	11/13/01 rdp01.2	npi	nprp		01106		1,700	12/1/01				
d1	11/13/01 rdp01.2	npi	nprp		01105		1,500	12/1/01				
d1	11/13/01 rdp01.2	npi	nprp		01104		1,500	12/1/01				
d1	11/13/01 rdp01.2	npi	nprp		01103		1,500	12/1/01				
d1	11/13/01 rdp01.2	npi	nprp		01102		1,500	12/1/01				
d1	11/13/01 rdp01.2	npi	nprp		01101		1,500	12/1/01				
d1	11/13/01 d2	npi	nprp		0031		11,600	12/1/01				
d1	11/1/99 d2	npi	nprp		94001		13,932	12/31/97				
d1	12/31/97 orig	npi	nprp		93302		6,800	2/1/96				
d1	12/1/98 d2	npi	nprp		93195		11,100	12/1/98				
d1	12/31/97 orig	npi	nprp		93193.1		7,900	2/1/96				
d1	12/1/98 d2	npi	nprp		93193		11,100	12/1/98				
d1	12/31/97 orig	npi	nprp		93158		2,400	2/1/96				
d1	12/31/97 orig	npi	nprp		93157		2,000	2/1/96				
d1	12/31/97 orig	npi	nprp		93154		2,400	2/1/96				
d1	12/31/97 orig	npi	nprp		93153		2,500	2/1/96				
d1	12/31/97 orig	npi	nprp		93152		2,400	2/1/96				
d1	12/31/97 orig	npi	nprp		93150		3,200	2/1/96				

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**NEUTRON PRODUCTS, INC.**  
**COBALT-60 IN IRRADIATORS**

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irrad	reccdate	recfrom	manuf	model	serialno	slugno	ci	cidate	shipdate	shipto : hiptoname	split	tto
d1	12/31/97	orig	npi	nprp	93149		3,100	2/1/96				
d1	12/31/97	orig	npi	nprp	93148		3,100	2/1/96				
d1	12/31/97	orig	npi	nprp	93147		3,000	2/1/96				
d1	12/31/97	orig	npi	nprp	93146		2,800	2/1/96				
d1	12/31/97	orig	npi	nprp	93145		2,800	2/1/96				
d1	12/31/97	orig	npi	nprp	93144		2,500	2/1/96				
d1	12/31/97	orig	npi	nprp	93141		1,700	2/1/96				
d1	12/31/97	orig	npi	nprp	93140		1,800	2/1/96				
d1	12/31/97	orig	npi	nprp	93136		2,400	2/1/96				
d1	12/31/97	orig	npi	nprp	93135		2,400	2/1/96				
d1	12/31/97	orig	npi	nprp	93134		2,400	2/1/96				
d1	12/31/97	orig	npi	nprp	93133		2,500	2/1/96				
d1	12/31/97	orig	npi	nprp	93132		2,500	2/1/96				
d1	12/31/97	orig	npi	nprp	93131		2,500	2/1/96				
d1	12/31/97	orig	npi	nprp	93130		2,600	2/1/96				
d1	12/31/97	orig	npi	nprp	93128		2,500	2/1/96				
d1	12/31/97	orig	npi	nprp	93127		2,500	2/1/96				
d1	12/31/97	orig	npi	nprp	93126		2,500	2/1/96				
d1	12/31/97	orig	npi	nprp	93125		2,400	2/1/96				
d1	12/31/97	orig	npi	nprp	92402		7,600	2/1/96				
d1	12/31/97	orig	npi	nprp	91326		5,800	2/1/96				
d1	12/31/97	orig	npi	nprp	91322		5,900	2/1/96				
d1	12/1/98	d2	npi	nprp	90304		9,500	12/1/98				
d1	12/1/98	d2	npi	nprp	89015		10,200	12/1/98				
d1	12/31/97	orig	npi	nprp	89009		9,000	2/1/96				
d1	12/31/97	orig	npi	nprp	89007		9,000	2/1/96				
d1	12/31/97	orig	npi	nprp	89005		9,400	2/1/96				
d1	12/31/97	orig	npi	nprp	87039		8,900	2/1/96				
d1	12/31/97	orig	npi	nprp	87038		9,100	2/1/96				
d1	12/31/97	orig	npi	nprp	87037		8,700	2/1/96				
d1	12/31/97	orig	npi	nprp	87036		8,900	2/1/96				
d1	12/31/97	orig	npi	nprp	87033		9,000	2/1/96				
d1	12/31/97	orig	npi	nprp	87032		9,000	2/1/96				
d1	12/31/97	orig	npi	nprp	87031		9,200	2/1/96				
d1	12/31/97	orig	npi	nprp	87030		8,800	2/1/96				
d1	12/31/97	orig	npi	nprp	85149		1,500	2/1/96				
d1	12/31/97	orig	npi	nprp	85004		8,200	2/1/96				
d1	12/31/97	orig	npi	nprp	85003		9,000	2/1/96				
d1	12/31/97	orig	npi	nprp	85002		9,200	2/1/96				

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**NEUTRON PRODUCTS, INC.**  
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irrad	reccdate	recfrom	manuf	model	serialno	slugno	ci	cdate	shipdate	shipto:hptoname	split	tto
d1	12/31/97	orig	npi	nprp	85001		9,400	2/1/96				
d1	12/31/97	orig	npi	nprp	83347		1,100	2/1/96				
d1	12/31/97	orig	npi	nprp	83345		1,400	2/1/96				
d1	12/31/97	orig	npi	nprp	83344		1,500	2/1/96				
d1	12/1/98	3392	npi	nprp	83114		1,400	12/1/98				
d1	12/1/98	3392	npi	nprp	83113		1,400	12/1/98				
d1	12/1/98	3392	npi	nprp	83112		1,500	12/1/98				
d1	12/1/98	3392	npi	nprp	83111		1,500	12/1/98				
d1	12/1/98	3392	npi	nprp	83110		1,500	12/1/98				
d1	12/1/98	3392	npi	nprp	83109		1,500	12/1/98				
d1	12/1/98	3392	npi	nprp	83108		1,500	12/1/98				
d1	12/1/98	3392	npi	nprp	83107		1,500	12/1/98				
d1	12/1/98	3392	npi	nprp	83106		1,500	12/1/98				
d1	12/1/98	3392	npi	nprp	83105		1,500	12/1/98				
d1	12/1/98	3392	npi	nprp	83104		1,500	12/1/98				
d1	12/1/98	3392	npi	nprp	83103		1,500	12/1/98				
d1	12/1/98	3392	npi	nprp	83102		1,500	12/1/98				
d1	12/1/98	3392	npi	nprp	83101		1,500	12/1/98				
d1	12/15/99	rdp99.6	npi	nprp	9969		2,900	12/1/99				
d1	12/15/99	rdp99.6	npi	nprp	9968		2,800	12/1/99				
d1	12/15/99	rdp99.6	npi	nprp	9967		2,900	12/1/99				
d1	12/15/99	rdp99.6	npi	nprp	9966		3,300	12/1/99				
d1	12/15/99	rdp99.6	npi	nprp	9965		2,900	12/1/99				
d1	12/15/99	rdp99.51	npi	nprp	9952		2,200	12/1/99				
d1	12/15/99	rdp99.51	npi	nprp	9951		2,100	12/1/99				
d1	12/15/99	rdp99.51	npi	nprp	9950		2,200	12/1/99				
d1	12/15/99	rdp99.51	npi	nprp	9949		2,100	12/1/99				
d1	12/15/99	rdp99.51	npi	nprp	9948		1,900	12/1/99				
d1	12/15/99	rdp99.51	npi	nprp	9947		1,900	12/1/99				
d1	12/15/99	rdp99.51	npi	nprp	9946		2,400	12/1/99				
d1	12/15/99	rdp99.51	npi	nprp	9945		2,100	12/1/99				
d1	12/15/99	rdp99.51	npi	nprp	9944		2,200	12/1/99				
d1	12/15/99	rdp99.51	npi	nprp	9943		1,900	12/1/99				
d1	12/15/99	rdp99.51	npi	nprp	9942		2,500	12/1/99				
d1	12/15/99	rdp99.51	npi	nprp	9941		2,200	12/1/99				
d1	12/1/98	rdp98.10	npi	nprp	9876		6,300	12/1/98				
d1	12/1/98	rdp98.10	npi	nprp	9875		6,100	12/1/98				
d1	12/1/98	rdp98.10	npi	nprp	9874		6,100	12/1/98				
d1	12/1/98	rdp98.10	npi	nprp	9873		6,100	12/1/98				

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NEUTRON PRODUCTS, INC.

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irrad	recdate	recfrom	manuf	model	serialno	slugno	ci	cdate	shipdate	shipto	hiptoname	split	tto
d1	12/1/98	rdp98.10	npi	nprp	9872		6,800	12/1/98					
d1	12/1/98	rdp98.10	npi	nprp	9871		6,800	12/1/98					
d1	12/31/97	orig	npi	nprp	9672		6,800	2/1/96					
d1	12/31/97	orig	npi	nprp	9671		6,800	2/1/96					
d1	12/31/97	orig	npi	nprp	9670		6,500	2/1/96					
d1	12/31/97	orig	npi	nprp	9669		5,700	2/1/96					
d1	12/31/97	orig	npi	nprp	9668		5,200	2/1/96					
d1	12/31/97	orig	npi	nprp	9667		6,200	2/1/96					
d1	12/1/98	d2	npi	nprp	9665		10,600	12/1/98					
d1	12/1/98	d2	npi	nprp	9664		10,000	12/1/98					
d1	12/1/98	d2	npi	nprp	9663		10,400	12/1/98					
d1	12/1/98	d2	npi	nprp	9662		10,300	12/1/98					
d1	11/1/99	d2	npi	nprp	9658		14,748	12/31/97					
d1	11/1/99	d2	npi	nprp	9654		13,951	12/31/97					
d1	11/1/99	d2	npi	nprp	9653		13,777	12/31/97					
d1	12/31/97	orig	npi	nprp	9320		8,500	2/1/96					
d1	12/31/97	orig	npi	nprp	9318		7,600	2/1/96					
d1	12/31/97	orig	npi	nprp	8538		1,800	2/1/96					
d1	12/31/97	orig	npi	nprp	8537		1,900	2/1/96					
d2	5/30/01	rdp01.2	npi	nprp	0182		19,000	6/1/01	1/1/02	split	0182split		
pl	1/1/02	0182split	npi	nptt	0182split	911347	1970	7/1/91					
pl	1/1/02	0182split	npi	nptt	0182split	981676	4060	6/1/98					
pl	1/1/02	0182split	npi	nptt	0182split	981678	5340	6/1/98					
pl	1/1/02	0182split	npi	nptt	0182split	981679	3350	6/1/98					
pl	1/1/02	0182split	npi	nptt	0182split	981709	4060	6/1/98					
pl	1/1/02	0182split	npi	nptt	0182split	981711	3290	6/1/98					
pl	1/1/02	0182split	npi	nptt	0182split	981712	3290	6/1/98					
pl	1/1/02	0182split	npi	nptt	0182split	981713	4190	6/1/98	3/26/02		3459 univ of alabama	T1531	
pl	1/1/02	0182split	npi	nptt	0182split	981714	3850	6/1/98					
pl	1/1/02	0182split	npi	nptt	0182split	981715	3780	6/1/98				T1532	
pl	1/1/02	0182split	npi	nptt	0182split	981716	3680	6/1/98				T1532	
pl	1/1/02	0182split	npi	nptt	0182split	981748	3720	6/1/98	3/26/02		3459 univ of alabama	T1531	
pl	1/1/02	0182split	npi	nptt	0182split	981749	3720	6/1/98					
d2	5/30/01	rdp01.2	npi	nprp	0181		31,200	6/1/01					
d2	5/30/01	rdp01.2	npi	nprp	0180		35,410	4/1/01					
d2	5/30/01	rdp01.2	npi	nprp	0178		15,310	4/1/01					
d2	5/30/01	rdp01.2	npi	nprp	0175		14,970	4/1/01					
d2	5/30/01	rdp01.2	npi	nprp	0171		15,950	4/1/01					
d2	11/8/01	rdp01.1	npi	nprp	0138		21,800	6/1/01					

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Teletherapy Lead Lk

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**NEUTRON PRODUCTS, INC.**  
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irrad	reccdate	recfrom	manuf	model	serialno	slugno	ci	cdate	shipdate	shipto : hiptoname	split	tto
d2	11/8/01	rdp01.1	npi	nprp	0137		21,600	6/1/01				
d2	11/8/01	rdp01.1	npi	nprp	0136		22,100	6/1/01				
d2	11/8/01	rdp01.1	npi	nprp	0135		21,600	6/1/01				
d2	11/8/01	rdp01.1	npi	nprp	0134		21,900	6/1/01				
d2	11/8/01	rdp01.1	npi	nprp	0133		21,300	6/1/01				
d2	11/8/01	rdp01.1	npi	nprp	0132		21,300	6/1/01				
d2	11/8/01	rdp01.1	npi	nprp	0131		21,200	6/1/01				
d2	4/3/00	rdp00.2.5	npi	nprp	200030		29,000	11/1/99				
d2	4/3/00	rdp00.2.5	npi	nprp	200029		29,000	11/1/99				
d2	4/3/00	rdp00.2.5	npi	nprp	200028		29,000	11/1/99				
d2	4/3/00	rdp00.2.4	npi	nprp	200026		17,400	11/1/99				
d2	4/3/00	rdp00.2.4	npi	nprp	200025		18,400	11/1/99				
d2	4/3/00	rdp00.2.4	npi	nprp	200024		18,600	11/1/99				
d2	4/3/00	rdp00.2.4	npi	nprp	200022		18,200	11/1/99				
d2	4/3/00	rdp00.2.4	npi	nprp	200021		18,100	11/1/99				
d2	3/13/00	rdp00.2.3	npi	nprp	200020		21,300	11/1/99				
d2	3/13/00	rdp00.2.2	npi	nprp	200019		33,000	11/1/99				
d2	3/13/00	rdp00.2.1	npi	nprp	200018		32,800	11/1/99				
d2	12/31/97	orig	npi	nprp	94102		16,351	12/31/97				
d2	12/31/97	orig	npi	nprp	93197		12,128	12/31/97				
d2	12/31/97	orig	npi	nprp	93196		12,329	12/31/97				
d2	12/31/97	orig	npi	nprp	93194		12,164	12/31/97				
d2	12/31/97	orig	npi	nprp	93192		12,265	12/31/97				
d2	12/31/97	orig	npi	nprp	93191		12,824	12/31/97				
d2	12/31/97	orig	npi	nprp	93190		13,740	12/31/97				
d2	12/31/97	orig	npi	nprp	92002		14,629	12/31/97				
d2	12/31/97	orig	npi	nprp	92001		20,015	12/31/97				
d2	12/31/97	orig	npi	nprp	90305		8,949	12/31/97				
d2	12/31/97	orig	npi	nprp	90303		12,641	12/31/97				
d2	12/31/97	orig	npi	nprp	90301		14,363	12/31/97				
d2	12/31/97	orig	npi	nprp	89016		8,647	12/31/97				
d2	12/31/97	orig	npi	nprp	89004		9,783	12/31/97				
d2	12/31/97	orig	npi	nprp	89003		9,123	12/31/97				
d2	12/31/97	orig	npi	nprp	89002		10,049	12/31/97				
d2	12/31/97	orig	npi	nprp	89001		10,598	12/31/97				
d2	12/31/97	orig	npi	nprp	87013		4,763	12/31/97				
d2	12/31/97	orig	npi	nprp	87005		3,353	12/31/97				
d2	4/27/00	pl	npi	nprp	85192		6,641	12/31/97				
d2	11/1/99	rdp99.3	npi	nprp	9934		27,500	11/1/99				

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ORIGINAL

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**NEUTRON PRODUCTS, INC.**  
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irrad	reccdate	recfrom	manuf	model	serialno	slugno	ci	cdate	shipdate	shipto :hiptoname	split	tto
d2	11/1/99	rdp99.3	npi	nprp	9933		27,500	11/1/99				
d2	11/1/99	rdp99.3	npi	nprp	9932		29,000	11/1/99				
d2	11/1/99	rdp99.3	npi	nprp	9931		28,000	11/1/99				
d2	6/30/99	rdp99.2	npi	nprp	9908		7,500	11/1/99				
d2	6/30/99	rdp99.2	npi	nprp	9907		7,100	11/1/99				
d2	6/30/99	rdp99.2	npi	nprp	9906		7,200	11/1/99				
d2	6/30/99	rdp99.2	npi	nprp	9905		7,400	11/1/99				
d2	6/30/99	rdp99.2	npi	nprp	9904		6,700	11/1/99				
d2	6/30/99	rdp99.2	npi	nprp	9902		6,900	11/1/99				
d2	6/30/99	rdp99.2	npi	nprp	9901		6,900	11/1/99				
d2	12/1/98	rdp98.4	npi	nprp	9815		24,600	12/1/98				
d2	12/1/98	rdp98.4	npi	nprp	9814		24,600	12/1/98				
d2	12/1/98	rdp98.4	npi	nprp	9813		24,600	12/1/98				
d2	12/1/98	rdp98.4	npi	nprp	9812		25,000	12/1/98				
d2	12/1/98	rdp98.4	npi	nprp	9811		24,800	12/1/98				
d2	12/1/98	rdp98.4	npi	nprp	9810		24,600	12/1/98				
d2	12/1/98	rdp98.4	npi	nprp	9809		24,700	12/1/98				
d2	12/1/98	rdp98.4	npi	nprp	9808		25,000	12/1/98				
d2	12/1/98	rdp98.4	npi	nprp	9806		24,100	12/1/98				
d2	12/1/98	rdp98.4	npi	nprp	9805		24,400	12/1/98				
d2	12/1/98	rdp98.4	npi	nprp	9804		24,400	12/1/98				
d2	12/1/98	rdp98.4	npi	nprp	9803		24,700	12/1/98				
d2	12/31/97	orig	npi	nprp	9660		12,009	12/31/97				
d2	12/31/97	orig	npi	nprp	9659		12,091	12/31/97				
d2	12/31/97	orig	npi	nprp	9657		13,877	12/31/97				
d2	12/31/97	orig	npi	nprp	9656		13,758	12/31/97				
d2	12/31/97	orig	npi	nprp	9655		12,797	12/31/97				
d2	12/31/97	orig	npi	nprp	9551		19,932	12/31/97				
d2	12/31/97	orig	npi	nprp	9550		21,324	12/31/97				
d2	4/27/00	pl	npi	nprp	8525		1,863	5/1/93				
d2	6/30/99	rdp99.4	npi	nprp	986		15,700	11/1/99				
d2	6/30/99	rdp99.4	npi	nprp	981		24,200	11/1/99				
d2	12/31/97	orig	npi	nprp	979		26,995	12/31/97				
d2	12/31/97	orig	npi	nprp	978		21,563	12/31/97				
pl	11/13/01	d1	npi	nprp	8913R		1,700	2/1/96				
pl	11/13/01	d1	npi	nprp	8911R		1,800	2/1/96				
pl	11/13/01	d1	npi	nprp	84203A		4,300	2/1/96				
pl	11/8/01	d2	npi	nprp	0183		27,700	6/1/01	1/1/02 d2			
d2	1/1/02	pl	npi	nprp	0183		27,700	6/1/01				

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irrad	reccdate	recfrom	manuf	model	serialno	slugno	ci	cdate	shipdate	shipto:hiptoname	split	tto
pl	11/8/01 d2	npi	nprp		0177		14,670	4/1/01				
pl	11/8/01 d2	npi	nprp		0176		15,310	4/1/01	1/1/02 split	0176split		
pl	1/1/02 0176split	arg	rodlets	rodlets-7 to T1533			6,699	4/1/01	3/8/02	3968 misericordia de santos	T1533	
pl	1/1/02 0176split	arg	rodlets	rodlets-9 leftover			8,611	4/1/01				
pl	11/8/01 d2	npi	nprp		0174		14,670	4/1/01				
pl	11/8/01 d2	npi	nprp		200027		17,500	11/1/99				
pl	11/8/01 d2	npi	nprp		200023		18,300	11/1/99	1/1/02 split	200023split		
pl	1/1/02 200023split	arg	rodlets	rodlets-8 to T1534			4,240	11/1/99				T1534
pl	1/1/02 200023split	arg	rodlets	rodlets-7 to T1535			3,710	11/1/99	3/26/02	3699 univ of georgia		T1535
pl	1/1/02 200023split	arg	rodlets	rodlets-31 leftover			10,270	11/1/99				
pl	11/13/01 d1	npi	nprp		93156		1,600	2/1/96				
pl	11/13/01 d1	npi	nprp		93155		1,600	2/1/96				
pl	11/13/01 d1	npi	nprp		93143		1,800	2/1/96				
pl	11/13/01 d1	npi	nprp		93142		1,600	2/1/96				
pl	12/31/97 orig	npi	nprp		93125		5,980	5/1/93				
pl	12/31/97 orig	npi	nprp		93124		5,860	5/1/93				
pl	12/31/97 orig	npi	nprp		93122		5,810	5/1/93				
pl	12/31/97 orig	npi	nprp		93121		5,950	5/1/93				
pl	12/31/97 orig	npi	nprp		93120		5,840	5/1/93				
pl	11/13/01 d1	npi	nprp		91327		4,000	2/1/96				
pl	11/13/01 d1	npi	nprp		91325		5,400	2/1/96				
pl	12/15/99 d1	npi	nprp		91324		4,000	2/1/96				
pl	12/15/99 d1	npi	nprp		91323		4,300	2/1/96				
pl	12/15/99 d1	npi	nprp		91318		3,700	2/1/96				
pl	11/30/98 d1	npi	nprp		91314		3,906	5/1/93				
pl	12/15/99 d1	npi	nprp		91312		3,700	2/1/96				
pl	11/30/98 d1	npi	nprp		89030		3,845	5/1/93				
pl	11/30/98 d1	npi	nprp		89028		3,816	5/1/93				
pl	11/30/98 d1	npi	nprp		89025		3,643	5/1/93				
pl	11/13/01 d1	npi	nprp		89010		5,900	2/1/96				
pl	11/1/99 d2	npi	nprp		87025		4,433	12/31/97				
pl	11/1/99 d2	npi	nprp		87006		3,985	12/31/97				
pl	11/13/01 d1	npi	nprp		85191		4,800	2/1/96				
pl	4/3/00 d2	npi	nprp		85190		4,241	12/31/97				
pl	4/3/00 d2	npi	nprp		84204		3,637	12/31/97				
pl	11/13/01 d1	npi	nprp		84202		4,400	2/1/96				
pl	12/15/99 d1	npi	nprp		83346		1,300	2/1/96				
pl	12/31/97 orig	npi	nprp		83343		800	2/1/96				
pl	11/13/01 d1	npi	nprp		83342		1,400	2/1/96				

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irradinv02

**NEUTRON PRODUCTS, INC.**  
**COBALT-60 IN IRRADIATORS**

10/2/03 3:05 PM

irrad	recdate	recfrom	manuf	model	serialno	slugno	ci	cdate	shipdate	shipto.hiptoname	split	tto
pl	12/31/97 orig	npi	nprp		83341		1,100	2/1/96				
pl	11/13/01 d1	npi	nprp		83338		1,400	2/1/96				
pl	12/31/97 orig	npi	nprp		83336		1,000	2/1/96				
pl	12/31/97 orig	npi	nprp		83324		900	2/1/96				
pl	12/31/97 orig	npi	nprp		83323		700	2/1/96				
pl	12/31/97 orig	npi	nprp		83321		900	2/1/96				
pl	12/15/99 d1	npi	nprp		83320		1,200	2/1/96				
pl	12/15/99 d1	npi	nprp		83319		1,200	2/1/96				
pl	11/13/01 d1	npi	nprp		83318		1,400	2/1/96				
pl	12/31/97 orig	npi	nprp		83317		1,100	2/1/96				
pl	12/15/99 d1	npi	nprp		83316		1,100	2/1/96				
pl	12/31/97 orig	npi	nprp		83315		1,100	2/1/96				
pl	11/13/01 d1	npi	nprp		83314		1,400	2/1/96				
pl	12/15/99 d1	npi	nprp		83313		1,200	2/1/96				
pl	12/15/99 d1	npi	nprp		83312		1,100	2/1/96				
pl	12/31/97 orig	npi	nprp		83311		1,100	2/1/96				
pl	12/15/99 d1	npi	nprp		83310		1,300	2/1/96				
pl	12/31/97 orig	npi	nprp		83309		1,100	2/1/96				
pl	12/31/97 orig	npi	nprp		83308		1,000	2/1/96				
pl	12/15/99 d1	npi	nprp		83307		1,200	2/1/96				
pl	12/15/99 d1	npi	nprp		83306		1,200	2/1/96				
pl	11/13/01 d1	npi	nprp		83305		1,300	2/1/96				
pl	11/13/01 d1	npi	nprp		83304		1,400	2/1/96				
pl	12/15/99 d1	npi	nprp		83303		1,300	2/1/96				
pl	12/31/97 orig	npi	nprp		83302		1,100	2/1/96				
pl	12/15/99 d1	npi	nprp		83301		1,100	2/1/96				
pl	12/15/99 d1	npi	nprp		83148		1,200	2/1/96				
pl	12/31/97 orig	npi	nprp		79290		1,571	5/1/93				
pl	12/31/97 orig	npi	nprp		79287		1,489	5/1/93				
pl	12/31/97 orig	npi	nprp		79285		1,475	5/1/93				
pl	12/31/97 orig	npi	nprp		79279		1,653	5/1/93				
pl	12/31/97 orig	npi	nprp		79278		1,642	5/1/93				
pl	12/31/97 orig	npi	nprp		79275		1,578	5/1/93				
pl	12/31/97 orig	npi	nprp		79273		1,479	5/1/93				
pl	12/31/97 orig	npi	nprp		79270		1,664	5/1/93				
pl	12/31/97 orig	npi	nprp		79266		1,489	5/1/93				
pl	12/15/99 d1	npi	nprp		79264		1,200	2/1/96				
pl	11/13/01 d1	npi	nprp		79263		1,400	2/1/96				
pl	11/13/01 d1	npi	nprp		79260		1,300	2/1/96				

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NEUTRON PRODUCTS, INC.  
COBALT-60 IN IRRADIATORS  
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irrad	reccdate	recfrom	manuf	model	serialno	slugno	ci	cdate	shipdate	shipto:hiptoname	split	tto
pl	12/15/99	d1	npi	nprp	79259		1,300	2/1/96				
pl	12/31/97	orig	npi	nprp	79258		1,578	5/1/93				
pl	12/15/99	d1	npi	nprp	79257		1,200	2/1/96				
pl	12/31/97	orig	npi	nprp	79256		1,539	5/1/93				
pl	12/31/97	orig	npi	nprp	79255		1,485	5/1/93				
pl	12/31/97	orig	npi	nprp	79254		1,628	5/1/93				
pl	12/15/99	d1	npi	nprp	79253		1,200	2/1/96				
pl	12/15/99	d1	npi	nprp	79252		1,300	2/1/96				
pl	12/31/97	orig	npi	nprp	79246		1,553	5/1/93				
pl	12/31/97	orig	npi	nprp	79244		1,478	5/1/93				
pl	12/31/97	orig	npi	nprp	79235		1,339	5/1/93				
pl	12/31/97	orig	npi	nprp	79216		1,649	5/1/93				
pl	12/31/97	orig	npi	nprp	79143		700	2/1/96				
pl	12/31/97	orig	npi	nprp	79136		700	2/1/96				
pl	12/31/97	orig	npi	nprp	79132		800	2/1/96				
pl	4/27/00	d2	npi	nprp	9801		25,600	12/1/98				
pl	11/13/01	d1	npi	nprp	8914		1,400	2/1/96				
pl	12/15/99	d1	npi	nprp	8912		1,500	2/1/96				
pl	12/15/99	d1	npi	nprp	8536		1,400	2/1/96				
pl	12/31/97	orig	npi	nprp	8535		700	2/1/96				
pl	11/30/98	d1	npi	nprp	8534		1,606	5/1/93				
pl	11/13/01	d1	npi	nprp	8532		1,800	2/1/96				
pl	11/30/98	d1	npi	nprp	8530		1,776	5/1/93				
pl	12/15/99	d1	npi	nprp	8528		1,300	2/1/96				
pl	11/30/98	d1	npi	nprp	8526		1,586	5/1/93				
pl	11/30/98	d1	npi	nprp	8524		1,758	5/1/93				
pl	12/15/99	d1	npi	nprp	8523		1,500	2/1/96				
pl	12/31/97	orig	npi	nprp	8522		1,100	2/1/96				
pl	11/30/98	d1	npi	nprp	8521		1,573	5/1/93				
pl	12/31/97	orig	npi	nprp	3		600	2/1/96				
pl	12/31/97	orig	npi	nprp	2		600	2/1/96				
pl	12/31/97	orig	npi	nprp	1		600	2/1/96				

18267750.1 - 2,545,424 ##### 298,374 14,585

serialno	beg 1/1/02	beg 12/31/01	beg 1/1/02	end 12/31/01	end 12/31/02	end 12/31/02	d2 cicalcbegd2	d1 calcbegd1	pl cicalcbegpl	d2 cicalcendd2	d1 icalcendd1	pl cicalcendpl	d2 countd2	d1 countd1	pl countpool	
973	-	11,179	-	-	9,802	-	0	1	0							
972	-	10,387	-	-	9,108	-	0	1	0							
9666	-	8,508	-	-	7,460	-	0	1	0							
92401	-	11,179	-	-	9,802	-	0	1	0							
923	-	8,804	-	-	7,720	-	0	1	0							
0191	-	3,957	-	-	3,470	-	0	1	0							
0190	-	4,155	-	-	3,643	-	0	1	0							
0189	-	3,166	-	-	2,776	-	0	1	0							
0188	-	2,671	-	-	2,342	-	0	1	0							
0187	-	2,671	-	-	2,342	-	0	1	0							
0186	-	2,968	-	-	2,602	-	0	1	0							
0185	-	4,452	-	-	3,904	-	0	1	0							
0184	-	4,155	-	-	3,643	-	0	1	0							
01114	-	1,583	-	-	1,388	-	0	1	0							
01113	-	1,583	-	-	1,388	-	0	1	0							
01112	-	1,583	-	-	1,388	-	0	1	0							
01111	-	1,682	-	-	1,475	-	0	1	0							
01110	-	1,484	-	-	1,301	-	0	1	0							
01109	-	1,286	-	-	1,128	-	0	1	0							
01108	-	1,583	-	-	1,388	-	0	1	0							
01107	-	1,583	-	-	1,388	-	0	1	0							
01106	-	1,682	-	-	1,475	-	0	1	0							
01105	-	1,484	-	-	1,301	-	0	1	0							
01104	-	1,484	-	-	1,301	-	0	1	0							
01103	-	1,484	-	-	1,301	-	0	1	0							
01102	-	1,484	-	-	1,301	-	0	1	0							
01101	-	1,484	-	-	1,301	-	0	1	0							
0031	-	11,475	-	-	10,062	-	0	1	0							
94001	-	8,234	-	-	7,220	-	0	1	0							
93302	-	3,125	-	-	2,740	-	0	1	0							
93195	-	7,401	-	-	6,489	-	0	1	0							
93193.1	-	3,630	-	-	3,183	-	0	1	0							
93193	-	7,401	-	-	6,489	-	0	1	0							
93158	-	1,103	-	-	967	-	0	1	0							
93157	-	919	-	-	806	-	0	1	0							
93154	-	1,103	-	-	967	-	0	1	0							
93153	-	1,149	-	-	1,007	-	0	1	0							
93152	-	1,103	-	-	967	-	0	1	0							
93150	-	1,470	-	-	1,289	-	0	1	0							

serialno	beg			end								
	1/1/02	1/1/02	1/1/02	d2	d1	pl	12/31/01	12/31/01	12/31/01	d2	d1	pl
cicalcbeqd2	cicalcbeqd1	cicalcbeqpl	cicalcendd2	cicalcendd1	cicalcendpl							
93149	-	1,424	-	-	1,249	-			0	1	0	
93148	-	1,424	-	-	1,249	-			0	1	0	
93147	-	1,379	-	-	1,209	-			0	1	0	
93146	-	1,287	-	-	1,128	-			0	1	0	
93145	-	1,287	-	-	1,128	-			0	1	0	
93144	-	1,149	-	-	1,007	-			0	1	0	
93141	-	781	-	-	685	-			0	1	0	
93140	-	827	-	-	725	-			0	1	0	
93136	-	1,103	-	-	967	-			0	1	0	
93135	-	1,103	-	-	967	-			0	1	0	
93134	-	1,103	-	-	967	-			0	1	0	
93133	-	1,149	-	-	1,007	-			0	1	0	
93132	-	1,149	-	-	1,007	-			0	1	0	
93131	-	1,149	-	-	1,007	-			0	1	0	
93130	-	1,195	-	-	1,048	-			0	1	0	
93128	-	1,149	-	-	1,007	-			0	1	0	
93127	-	1,149	-	-	1,007	-			0	1	0	
93126	-	1,149	-	-	1,007	-			0	1	0	
93125	-	1,103	-	-	967	-			0	1	0	
92402	-	3,492	-	-	3,062	-			0	1	0	
91326	-	2,665	-	-	2,337	-			0	1	0	
91322	-	2,711	-	-	2,377	-			0	1	0	
90304	-	6,334	-	-	5,554	-			0	1	0	
89015	-	6,801	-	-	5,963	-			0	1	0	
89009	-	4,136	-	-	3,626	-			0	1	0	
89007	-	4,136	-	-	3,626	-			0	1	0	
89005	-	4,319	-	-	3,788	-			0	1	0	
87039	-	4,090	-	-	3,586	-			0	1	0	
87038	-	4,182	-	-	3,667	-			0	1	0	
87037	-	3,998	-	-	3,505	-			0	1	0	
87036	-	4,090	-	-	3,586	-			0	1	0	
87033	-	4,136	-	-	3,626	-			0	1	0	
87032	-	4,136	-	-	3,626	-			0	1	0	
87031	-	4,227	-	-	3,707	-			0	1	0	
87030	-	4,044	-	-	3,546	-			0	1	0	
85149	-	689	-	-	604	-			0	1	0	
85004	-	3,768	-	-	3,304	-			0	1	0	
85003	-	4,136	-	-	3,626	-			0	1	0	
85002	-	4,227	-	-	3,707	-			0	1	0	

	beg 1/1/02	beg 1/1/02	beg 1/1/02	end	end	end				
	d2 12/31/01	d1 12/31/01	pl 12/31/01	d2 12/31/02	d1 12/31/02	pl 12/31/02		d2 countd2	d1 countd1	pl countpool
serialno	cicalbegd2	calcbegd1	cicalbegpl	cicalcendd2	icalcendd1	cicalcendpl				
85001	-	4,319	-	-	3,788	-		0	1	0
83347	-	505	-	-	443	-		0	1	0
83345	-	643	-	-	564	-		0	1	0
83344	-	689	-	-	604	-		0	1	0
83114	-	933	-	-	818	-		0	1	0
83113	-	933	-	-	818	-		0	1	0
83112	-	1,000	-	-	877	-		0	1	0
83111	-	1,000	-	-	877	-		0	1	0
83110	-	1,000	-	-	877	-		0	1	0
83109	-	1,000	-	-	877	-		0	1	0
83108	-	1,000	-	-	877	-		0	1	0
83107	-	1,000	-	-	877	-		0	1	0
83106	-	1,000	-	-	877	-		0	1	0
83105	-	1,000	-	-	877	-		0	1	0
83104	-	1,000	-	-	877	-		0	1	0
83103	-	1,000	-	-	877	-		0	1	0
83102	-	1,000	-	-	877	-		0	1	0
83101	-	1,000	-	-	877	-		0	1	0
9969	-	2,205	-	-	1,934	-		0	1	0
9968	-	2,129	-	-	1,867	-		0	1	0
9967	-	2,205	-	-	1,934	-		0	1	0
9966	-	2,509	-	-	2,200	-		0	1	0
9965	-	2,205	-	-	1,934	-		0	1	0
9952	-	1,673	-	-	1,467	-		0	1	0
9951	-	1,597	-	-	1,400	-		0	1	0
9950	-	1,673	-	-	1,467	-		0	1	0
9949	-	1,597	-	-	1,400	-		0	1	0
9948	-	1,445	-	-	1,267	-		0	1	0
9947	-	1,445	-	-	1,267	-		0	1	0
9946	-	1,825	-	-	1,600	-		0	1	0
9945	-	1,597	-	-	1,400	-		0	1	0
9944	-	1,673	-	-	1,467	-		0	1	0
9943	-	1,445	-	-	1,267	-		0	1	0
9942	-	1,901	-	-	1,667	-		0	1	0
9941	-	1,673	-	-	1,467	-		0	1	0
9876	-	4,200	-	-	3,683	-		0	1	0
9875	-	4,067	-	-	3,566	-		0	1	0
9874	-	4,067	-	-	3,566	-		0	1	0
9873	-	4,067	-	-	3,566	-		0	1	0

	beg 1/1/02	beg 12/31/01	beg 12/31/01	end 12/31/02	end 12/31/02	end 12/31/02					
	d2	d1	pl	d2	d1	pl	countd2	d1	pl	countd1	countpool
serialno	cicalcbegd2	calcbegd1	cicalcbegpl	cicalccendd2	cicalccendd1	cicalccendpl					
9872	-	4,534	-	-	3,976	-	0	1	0	0	0
9871	-	4,534	-	-	3,976	-	0	1	0	0	0
9672	-	3,125	-	-	2,740	-	0	1	0	0	0
9671	-	3,125	-	-	2,740	-	0	1	0	0	0
9670	-	2,987	-	-	2,619	-	0	1	0	0	0
9669	-	2,619	-	-	2,297	-	0	1	0	0	0
9668	-	2,389	-	-	2,095	-	0	1	0	0	0
9667	-	2,849	-	-	2,498	-	0	1	0	0	0
9665	-	7,067	-	-	6,197	-	0	1	0	0	0
9664	-	6,667	-	-	5,846	-	0	1	0	0	0
9663	-	6,934	-	-	6,080	-	0	1	0	0	0
9662	-	6,867	-	-	6,022	-	0	1	0	0	0
9658	-	8,716	-	-	7,642	-	0	1	0	0	0
9654	-	8,245	-	-	7,229	-	0	1	0	0	0
9653	-	8,142	-	-	7,139	-	0	1	0	0	0
9320	-	3,906	-	-	3,425	-	0	1	0	0	0
9318	-	3,492	-	-	3,062	-	0	1	0	0	0
8538	-	827	-	-	725	-	0	1	0	0	0
8537	-	873	-	-	766	-	0	1	0	0	0
0182	17,598	-	-	-	-	-	0	0	0	0	0
0182split	-	-	-	-	-	434	0	0	1	0	0
0182split	-	-	-	-	-	2,222	0	0	1	0	0
0182split	-	-	-	-	-	2,923	0	0	1	0	0
0182split	-	-	-	-	-	1,834	0	0	1	0	0
0182split	-	-	-	-	-	2,222	0	0	1	0	0
0182split	-	-	-	-	-	1,801	0	0	1	0	0
0182split	-	-	-	-	-	1,801	0	0	1	0	0
0182split	-	-	-	-	-	-	0	0	0	0	0
0182split	-	-	-	-	-	2,107	0	0	1	0	0
0182split	-	-	-	-	-	2,069	0	0	1	0	0
0182split	-	-	-	-	-	2,014	0	0	1	0	0
0182split	-	-	-	-	-	-	0	0	0	0	0
0182split	-	-	-	-	-	2,036	0	0	1	0	0
0181	28,897	-	-	25,339	-	-	1	0	0	0	0
0180	32,084	-	-	28,133	-	-	1	0	0	0	0
0178	13,872	-	-	12,164	-	-	1	0	0	0	0
0175	13,564	-	-	11,894	-	-	1	0	0	0	0
0171	14,452	-	-	12,672	-	-	1	0	0	0	0
0138	20,191	-	-	17,705	-	-	1	0	0	0	0

serialno	beg 1/1/02	beg 12/31/01	beg 12/31/01	end 12/31/02	end 12/31/02	end 12/31/02	d2 countd2	d1 countd1	pl countpool
	d2	d1	pl	d2	d1	pl			
	cicalcbegd2	calcbegd1	:icalcbetpl	cicalcendd2	cicalcendd1	:icalcendpl			
0137	20,006	-	-	17,542	-	-	1	0	0
0136	20,469	-	-	17,948	-	-	1	0	0
0135	20,006	-	-	17,542	-	-	1	0	0
0134	20,283	-	-	17,786	-	-	1	0	0
0133	19,728	-	-	17,299	-	-	1	0	0
0132	19,728	-	-	17,299	-	-	1	0	0
0131	19,635	-	-	17,217	-	-	1	0	0
200030	21,814	-	-	19,128	-	-	1	0	0
200029	21,814	-	-	19,128	-	-	1	0	0
200028	21,814	-	-	19,128	-	-	1	0	0
200026	13,088	-	-	11,477	-	-	1	0	0
200025	13,840	-	-	12,136	-	-	1	0	0
200024	13,991	-	-	12,268	-	-	1	0	0
200022	13,690	-	-	12,004	-	-	1	0	0
200021	13,615	-	-	11,938	-	-	1	0	0
200020	16,022	-	-	14,049	-	-	1	0	0
200019	24,822	-	-	21,766	-	-	1	0	0
200018	24,672	-	-	21,634	-	-	1	0	0
94102	9,663	-	-	8,473	-	-	1	0	0
93197	7,167	-	-	6,285	-	-	1	0	0
93196	7,287	-	-	6,389	-	-	1	0	0
93194	7,189	-	-	6,304	-	-	1	0	0
93192	7,249	-	-	6,356	-	-	1	0	0
93191	7,579	-	-	6,646	-	-	1	0	0
93190	8,120	-	-	7,120	-	-	1	0	0
92002	8,645	-	-	7,581	-	-	1	0	0
92001	11,828	-	-	10,372	-	-	1	0	0
90305	5,289	-	-	4,638	-	-	1	0	0
90303	7,471	-	-	6,551	-	-	1	0	0
90301	8,488	-	-	7,443	-	-	1	0	0
89016	5,110	-	-	4,481	-	-	1	0	0
89004	5,782	-	-	5,070	-	-	1	0	0
89003	5,392	-	-	4,728	-	-	1	0	0
89002	5,939	-	-	5,207	-	-	1	0	0
89001	6,263	-	-	5,492	-	-	1	0	0
87013	2,815	-	-	2,468	-	-	1	0	0
87005	1,981	-	-	1,737	-	-	1	0	0
85192	3,925	-	-	3,441	-	-	1	0	0
9934	20,685	-	-	18,138	-	-	1	0	0

serialno	cicalcbegd2			calcbegd1			cicalcbegpl			cicalcendd2			icalcendd1			cicalcendpl		
	beg 1/1/02	beg 12/31/01	beg 1/1/02	end 12/31/01	end 12/31/02	end 12/31/02	d2 12/31/01	d1 12/31/01	pl 12/31/01	d2 12/31/02	d1 12/31/02	pl 12/31/02	d2 12/31/02	countd2	d1 countd1	pl countpool		
9933	20,685	-	-	18,138	-	-							1	0	0	0		
9932	21,814	-	-	19,128	-	-							1	0	0	0		
9931	21,061	-	-	18,468	-	-							1	0	0	0		
9908	5,641	-	-	4,947	-	-							1	0	0	0		
9907	5,341	-	-	4,683	-	-							1	0	0	0		
9906	5,416	-	-	4,749	-	-							1	0	0	0		
9905	5,566	-	-	4,881	-	-							1	0	0	0		
9904	5,040	-	-	4,419	-	-							1	0	0	0		
9902	5,190	-	-	4,551	-	-							1	0	0	0		
9901	5,190	-	-	4,551	-	-							1	0	0	0		
9815	16,402	-	-	14,382	-	-							1	0	0	0		
9814	16,402	-	-	14,382	-	-							1	0	0	0		
9813	16,402	-	-	14,382	-	-							1	0	0	0		
9812	16,668	-	-	14,616	-	-							1	0	0	0		
9811	16,535	-	-	14,499	-	-							1	0	0	0		
9810	16,402	-	-	14,382	-	-							1	0	0	0		
9809	16,468	-	-	14,441	-	-							1	0	0	0		
9808	16,668	-	-	14,616	-	-							1	0	0	0		
9806	16,068	-	-	14,090	-	-							1	0	0	0		
9805	16,268	-	-	14,265	-	-							1	0	0	0		
9804	16,268	-	-	14,265	-	-							1	0	0	0		
9803	16,468	-	-	14,441	-	-							1	0	0	0		
9660	7,097	-	-	6,223	-	-							1	0	0	0		
9659	7,146	-	-	6,266	-	-							1	0	0	0		
9657	8,201	-	-	7,192	-	-							1	0	0	0		
9656	8,131	-	-	7,130	-	-							1	0	0	0		
9655	7,563	-	-	6,631	-	-							1	0	0	0		
9551	11,780	-	-	10,329	-	-							1	0	0	0		
9550	12,603	-	-	11,051	-	-							1	0	0	0		
8525	596	-	-	523	-	-							1	0	0	0		
986	11,809	-	-	10,355	-	-							1	0	0	0		
981	18,203	-	-	15,962	-	-							1	0	0	0		
979	15,953	-	-	13,989	-	-							1	0	0	0		
978	12,743	-	-	11,174	-	-							1	0	0	0		
8913R	-	-	781	-	-	685							0	0	0	1		
8911R	-	-	827	-	-	725							0	0	0	1		
84203A	-	-	1,976	-	-	1,733							0	0	0	1		
0183	-	-	25,655	-	-	-							0	0	0	0		
0183	-	-	-	22,496	-	-							1	0	0	0		

	beg 1/1/02	beg 1/1/02	beg 1/1/02	end	end	end				
	d2 12/31/01	d1 12/31/01	pl 12/31/01	d2 12/31/02	d1 12/31/02	pl 12/31/02		d2 countd2	d1 countd1	pl countpool
	serialno	cicalcbegd2	calcbegd1	cicalcbegpl	cicalccendd2	icalccendd1	cicalccendpl			
0177	-	-	13,292	-	-	11,655		0	0	1
0176	-	-	13,872	-	-	-		0	0	0
rodlets-7 to T153	-	-	-	-	-	-		0	0	0
rodlets-9 leftover	-	-	-	-	-	6,841		0	0	1
0174	-	-	13,292	-	-	11,655		0	0	1
200027	-	-	13,163	-	-	11,543		0	0	1
200023	-	-	13,765	-	-	-		0	0	0
rodlets-8 to T153	-	-	-	-	-	2,797		0	0	1
rodlets-7 to T153	-	-	-	-	-	-		0	0	0
rodlets-31 leftover	-	-	-	-	-	6,774		0	0	1
93156	-	-	735	-	-	645		0	0	1
93155	-	-	735	-	-	645		0	0	1
93143	-	-	827	-	-	725		0	0	1
93142	-	-	735	-	-	645		0	0	1
93125	-	-	1,913	-	-	1,677		0	0	1
93124	-	-	1,875	-	-	1,644		0	0	1
93122	-	-	1,859	-	-	1,630		0	0	1
93121	-	-	1,903	-	-	1,669		0	0	1
93120	-	-	1,868	-	-	1,638		0	0	1
91327	-	-	1,838	-	-	1,612		0	0	1
91325	-	-	2,481	-	-	2,176		0	0	1
91324	-	-	1,838	-	-	1,612		0	0	1
91323	-	-	1,976	-	-	1,733		0	0	1
91318	-	-	1,700	-	-	1,491		0	0	1
91314	-	-	1,250	-	-	1,096		0	0	1
91312	-	-	1,700	-	-	1,491		0	0	1
89030	-	-	1,230	-	-	1,079		0	0	1
89028	-	-	1,221	-	-	1,070		0	0	1
89025	-	-	1,165	-	-	1,022		0	0	1
89010	-	-	2,711	-	-	2,377		0	0	1
87025	-	-	2,620	-	-	2,297		0	0	1
87006	-	-	2,355	-	-	2,065		0	0	1
85191	-	-	2,206	-	-	1,934		0	0	1
85190	-	-	2,506	-	-	2,198		0	0	1
84204	-	-	2,149	-	-	1,885		0	0	1
84202	-	-	2,022	-	-	1,773		0	0	1
83346	-	-	597	-	-	524		0	0	1
83343	-	-	368	-	-	322		0	0	1
83342	-	-	643	-	-	564		0	0	1

serialno	beg 1/1/02	beg 12/31/01	beg 12/31/01	end 12/31/02	end 12/31/02	end 12/31/02	countd2	d1 countd1	pl countpool			
	d2	d1	pl	d2	d1	pl						
	12/31/01	12/31/01	12/31/01	12/31/02	12/31/02	12/31/02						
cicalb	cicalbeg	d2	calcbeg	d1	cicalbeg	pl	cicalcend	d2	icalcend	d1	cicalcend	pl
83341	-	-	505	-	-	443	0	0	0	0	0	1
83338	-	-	643	-	-	564	0	0	0	0	0	1
83336	-	-	460	-	-	403	0	0	0	0	0	1
83324	-	-	414	-	-	363	0	0	0	0	0	1
83323	-	-	322	-	-	282	0	0	0	0	0	1
83321	-	-	414	-	-	363	0	0	0	0	0	1
83320	-	-	551	-	-	484	0	0	0	0	0	1
83319	-	-	551	-	-	484	0	0	0	0	0	1
83318	-	-	643	-	-	564	0	0	0	0	0	1
83317	-	-	505	-	-	443	0	0	0	0	0	1
83316	-	-	505	-	-	443	0	0	0	0	0	1
83315	-	-	505	-	-	443	0	0	0	0	0	1
83314	-	-	643	-	-	564	0	0	0	0	0	1
83313	-	-	551	-	-	484	0	0	0	0	0	1
83312	-	-	505	-	-	443	0	0	0	0	0	1
83311	-	-	505	-	-	443	0	0	0	0	0	1
83310	-	-	597	-	-	524	0	0	0	0	0	1
83309	-	-	505	-	-	443	0	0	0	0	0	1
83308	-	-	460	-	-	403	0	0	0	0	0	1
83307	-	-	551	-	-	484	0	0	0	0	0	1
83306	-	-	551	-	-	484	0	0	0	0	0	1
83305	-	-	597	-	-	524	0	0	0	0	0	1
83304	-	-	643	-	-	564	0	0	0	0	0	1
83303	-	-	597	-	-	524	0	0	0	0	0	1
83302	-	-	505	-	-	443	0	0	0	0	0	1
83301	-	-	505	-	-	443	0	0	0	0	0	1
83148	-	-	551	-	-	484	0	0	0	0	0	1
79290	-	-	503	-	-	441	0	0	0	0	0	1
79287	-	-	476	-	-	418	0	0	0	0	0	1
79285	-	-	472	-	-	414	0	0	0	0	0	1
79279	-	-	529	-	-	464	0	0	0	0	0	1
79278	-	-	525	-	-	461	0	0	0	0	0	1
79275	-	-	505	-	-	443	0	0	0	0	0	1
79273	-	-	473	-	-	415	0	0	0	0	0	1
79270	-	-	532	-	-	467	0	0	0	0	0	1
79266	-	-	476	-	-	418	0	0	0	0	0	1
79264	-	-	551	-	-	484	0	0	0	0	0	1
79263	-	-	643	-	-	564	0	0	0	0	0	1
79260	-	-	597	-	-	524	0	0	0	0	0	1

serialno	beg 1/1/02	beg 1/1/02	beg 1/1/02	end	end	end	d2 countd2	d1 countd1	pl countpool	
	d2 12/31/01	d1 12/31/01	pl 12/31/01	d2 12/31/02	d1 12/31/02	pl 12/31/02				
	cicalcbegd2	calcbegd1	cicalcbegpl	cicalcendd2	cicalcendd1	cicalcendpl				
79259	-	-	597	-	-	524	0	0	1	
79258	-	-	505	-	-	443	0	0	1	
79257	-	-	551	-	-	484	0	0	1	
79256	-	-	492	-	-	432	0	0	1	
79255	-	-	475	-	-	417	0	0	1	
79254	-	-	521	-	-	457	0	0	1	
79253	-	-	551	-	-	484	0	0	1	
79252	-	-	597	-	-	524	0	0	1	
79246	-	-	497	-	-	436	0	0	1	
79244	-	-	473	-	-	415	0	0	1	
79235	-	-	428	-	-	376	0	0	1	
79216	-	-	528	-	-	463	0	0	1	
79143	-	-	322	-	-	282	0	0	1	
79136	-	-	322	-	-	282	0	0	1	
79132	-	-	368	-	-	322	0	0	1	
9801	-	-	17,068	-	-	14,967	0	0	1	
8914	-	-	643	-	-	564	0	0	1	
8912	-	-	689	-	-	604	0	0	1	
8536	-	-	643	-	-	564	0	0	1	
8535	-	-	322	-	-	282	0	0	1	
8534	-	-	514	-	-	450	0	0	1	
8532	-	-	827	-	-	725	0	0	1	
8530	-	-	568	-	-	498	0	0	1	
8528	-	-	597	-	-	524	0	0	1	
8526	-	-	507	-	-	445	0	0	1	
8524	-	-	562	-	-	493	0	0	1	
8523	-	-	689	-	-	604	0	0	1	
8522	-	-	505	-	-	443	0	0	1	
8521	-	-	503	-	-	441	0	0	1	
3	-	-	276	-	-	242	0	0	1	
2	-	-	276	-	-	242	0	0	1	
1	-	-	276	-	-	242	0	0	1	
18267750.1	1,053,350	405,320	196,919	930,713	355,412	163,817	-	80	136	120

as of 12/31/02  
 Transferred to 10/13/03 => 148,376

ORIGINAL

serialno	beg 1/1/02	beg 12/31/01	beg 1/1/02	end 12/31/01	end 12/31/02	end 12/31/02	d2 countd2	d1 countd1	pl countpool
	d2	d1	pl	d2	d1	pl			
	cicalcbegd2	cicalcbegd1	cicalcbetpl	cicalccendd2	cicalccendd1	cicalccendpl			
79259	-	-	597	-	-	524	0	0	1
79258	-	-	505	-	-	443	0	0	1
79257	-	-	551	-	-	484	0	0	1
79256	-	-	492	-	-	432	0	0	1
79255	-	-	475	-	-	417	0	0	1
79254	-	-	521	-	-	457	0	0	1
79253	-	-	551	-	-	484	0	0	1
79252	-	-	597	-	-	524	0	0	1
79246	-	-	497	-	-	436	0	0	1
79244	-	-	473	-	-	415	0	0	1
79235	-	-	428	-	-	376	0	0	1
79216	-	-	528	-	-	463	0	0	1
79143	-	-	322	-	-	282	0	0	1
79136	-	-	322	-	-	282	0	0	1
79132	-	-	368	-	-	322	0	0	1
9801	-	-	17,068	-	-	14,967	0	0	1
8914	-	-	643	-	-	564	0	0	1
8912	-	-	689	-	-	604	0	0	1
8536	-	-	643	-	-	564	0	0	1
8535	-	-	322	-	-	282	0	0	1
8534	-	-	514	-	-	450	0	0	1
8532	-	-	827	-	-	725	0	0	1
8530	-	-	568	-	-	498	0	0	1
8528	-	-	597	-	-	524	0	0	1
8526	-	-	507	-	-	445	0	0	1
8524	-	-	562	-	-	493	0	0	1
8523	-	-	689	-	-	604	0	0	1
8522	-	-	505	-	-	443	0	0	1
8521	-	-	503	-	-	441	0	0	1
3	-	-	276	-	-	242	0	0	1
2	-	-	276	-	-	242	0	0	1
1	-	-	276	-	-	242	0	0	1

18267750.1 1,053,350 405,320 196,919 930,713 355,412 163,817 - 80 136 120

as of 12/31/02

Delayed to 10/13/03 => 148,376

serialno	beg 1/1/02	beg 12/31/01	beg 1/1/02	end 12/31/01	end 12/31/02	end 12/31/02	d2 countd2	d1 countd1	pl countpool
	d2	d1	pl	d2	d1	pl			
	cicalcbegd2	calcbegd1	cicalcbegpl	cicalccendd2	cicalccendd1	cicalccendpl			
83341	-	-	505	-	-	443	0	0	1
83338	-	-	643	-	-	564	0	0	1
83336	-	-	460	-	-	403	0	0	1
83324	-	-	414	-	-	363	0	0	1
83323	-	-	322	-	-	282	0	0	1
83321	-	-	414	-	-	363	0	0	1
83320	-	-	551	-	-	484	0	0	1
83319	-	-	551	-	-	484	0	0	1
83318	-	-	643	-	-	564	0	0	1
83317	-	-	505	-	-	443	0	0	1
83316	-	-	505	-	-	443	0	0	1
83315	-	-	505	-	-	443	0	0	1
83314	-	-	643	-	-	564	0	0	1
83313	-	-	551	-	-	484	0	0	1
83312	-	-	505	-	-	443	0	0	1
83311	-	-	505	-	-	443	0	0	1
83310	-	-	597	-	-	524	0	0	1
83309	-	-	505	-	-	443	0	0	1
83308	-	-	460	-	-	403	0	0	1
83307	-	-	551	-	-	484	0	0	1
83306	-	-	551	-	-	484	0	0	1
83305	-	-	597	-	-	524	0	0	1
83304	-	-	643	-	-	564	0	0	1
83303	-	-	597	-	-	524	0	0	1
83302	-	-	505	-	-	443	0	0	1
83301	-	-	505	-	-	443	0	0	1
83148	-	-	551	-	-	484	0	0	1
79290	-	-	503	-	-	441	0	0	1
79287	-	-	476	-	-	418	0	0	1
79285	-	-	472	-	-	414	0	0	1
79279	-	-	529	-	-	464	0	0	1
79278	-	-	525	-	-	461	0	0	1
79275	-	-	505	-	-	443	0	0	1
79273	-	-	473	-	-	415	0	0	1
79270	-	-	532	-	-	467	0	0	1
79266	-	-	476	-	-	418	0	0	1
79264	-	-	551	-	-	484	0	0	1
79263	-	-	643	-	-	564	0	0	1
79260	-	-	597	-	-	524	0	0	1

ORIGINAL

serialno	beg 1/1/02	beg 12/31/01	beg 12/31/01	end d2	end d2	end d1	end pl	countd2	countd1	pl countpool
	d2	d1	pl	d2	d1	pl				
	cicalcbegd2	calcbegd1	cicalcbegpl	cicalccendd2	icalccendd1	cicalccendpl				
0177	-	-	13,292	-	-	11,655		0	0	1
0176	-	-	13,872	-	-	-		0	0	0
rodlets-7 to T153	-	-	-	-	-	-		0	0	0
rodlets-9 leftover	-	-	-	-	-	6,841		0	0	1
0174	-	-	13,292	-	-	11,655		0	0	1
200027	-	-	13,163	-	-	11,543		0	0	1
200023	-	-	13,765	-	-	-		0	0	0
rodlets-8 to T153	-	-	-	-	-	2,797		0	0	1
rodlets-7 to T153	-	-	-	-	-	-		0	0	0
rodlets-31 leftover	-	-	-	-	-	6,774		0	0	1
93156	-	-	735	-	-	645		0	0	1
93155	-	-	735	-	-	645		0	0	1
93143	-	-	827	-	-	725		0	0	1
93142	-	-	735	-	-	645		0	0	1
93125	-	-	1,913	-	-	1,677		0	0	1
93124	-	-	1,875	-	-	1,644		0	0	1
93122	-	-	1,859	-	-	1,630		0	0	1
93121	-	-	1,903	-	-	1,669		0	0	1
93120	-	-	1,868	-	-	1,638		0	0	1
91327	-	-	1,838	-	-	1,612		0	0	1
91325	-	-	2,481	-	-	2,176		0	0	1
91324	-	-	1,838	-	-	1,612		0	0	1
91323	-	-	1,976	-	-	1,733		0	0	1
91318	-	-	1,700	-	-	1,491		0	0	1
91314	-	-	1,250	-	-	1,096		0	0	1
91312	-	-	1,700	-	-	1,491		0	0	1
89030	-	-	1,230	-	-	1,079		0	0	1
89028	-	-	1,221	-	-	1,070		0	0	1
89025	-	-	1,165	-	-	1,022		0	0	1
89010	-	-	2,711	-	-	2,377		0	0	1
87025	-	-	2,620	-	-	2,297		0	0	1
87006	-	-	2,355	-	-	2,065		0	0	1
85191	-	-	2,206	-	-	1,934		0	0	1
85190	-	-	2,506	-	-	2,198		0	0	1
84204	-	-	2,149	-	-	1,885		0	0	1
84202	-	-	2,022	-	-	1,773		0	0	1
83346	-	-	597	-	-	524		0	0	1
83343	-	-	368	-	-	322		0	0	1
83342	-	-	643	-	-	564		0	0	1

serialno	beg 1/1/02	beg 12/31/01	beg 12/31/01	end 12/31/02	end 12/31/02	end 12/31/02	d2 countd2	d1 countd1	pl countpool
	d2	d1	pl	d2	d1	pl			
	12/31/01	12/31/01	12/31/01	12/31/02	12/31/02	12/31/02			
cicalcbegd2	calcbegd1	cicalcbegpl	cicalccendd2	cicalccendd1	cicalccendpl				
9933	20,685	-	-	18,138	-	-	1	0	0
9932	21,814	-	-	19,128	-	-	1	0	0
9931	21,061	-	-	18,468	-	-	1	0	0
9908	5,641	-	-	4,947	-	-	1	0	0
9907	5,341	-	-	4,683	-	-	1	0	0
9906	5,416	-	-	4,749	-	-	1	0	0
9905	5,566	-	-	4,881	-	-	1	0	0
9904	5,040	-	-	4,419	-	-	1	0	0
9902	5,190	-	-	4,551	-	-	1	0	0
9901	5,190	-	-	4,551	-	-	1	0	0
9815	16,402	-	-	14,382	-	-	1	0	0
9814	16,402	-	-	14,382	-	-	1	0	0
9813	16,402	-	-	14,382	-	-	1	0	0
9812	16,668	-	-	14,616	-	-	1	0	0
9811	16,535	-	-	14,499	-	-	1	0	0
9810	16,402	-	-	14,382	-	-	1	0	0
9809	16,468	-	-	14,441	-	-	1	0	0
9808	16,668	-	-	14,616	-	-	1	0	0
9806	16,068	-	-	14,090	-	-	1	0	0
9805	16,268	-	-	14,265	-	-	1	0	0
9804	16,268	-	-	14,265	-	-	1	0	0
9803	16,468	-	-	14,441	-	-	1	0	0
9660	7,097	-	-	6,223	-	-	1	0	0
9659	7,146	-	-	6,266	-	-	1	0	0
9657	8,201	-	-	7,192	-	-	1	0	0
9656	8,131	-	-	7,130	-	-	1	0	0
9655	7,563	-	-	6,631	-	-	1	0	0
9551	11,780	-	-	10,329	-	-	1	0	0
9550	12,603	-	-	11,051	-	-	1	0	0
8525	596	-	-	523	-	-	1	0	0
986	11,809	-	-	10,355	-	-	1	0	0
981	18,203	-	-	15,962	-	-	1	0	0
979	15,953	-	-	13,989	-	-	1	0	0
978	12,743	-	-	11,174	-	-	1	0	0
8913R	-	-	781	-	-	685	0	0	1
8911R	-	-	827	-	-	725	0	0	1
84203A	-	-	1,976	-	-	1,733	0	0	1
0183	-	-	25,655	-	-	-	0	0	0
0183	-	-	-	22,496	-	-	1	0	0

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serialno	beg			end								
	1/1/02	1/1/02	1/1/02	12/31/01	12/31/01	12/31/01	12/31/02	12/31/02	12/31/02	d2	d1	pl
	d2	d1	pl	d2	d1	pl	countd2	countd1	countpool	d2	d1	pl
cicalcbegd2	calcbegd1	cicalcbegpl	cicalccendd2	icalccendd1	cicalccendlp							
0137	20,006	-	-	17,542	-	-	1	0	0			
0136	20,469	-	-	17,948	-	-	1	0	0			
0135	20,006	-	-	17,542	-	-	1	0	0			
0134	20,283	-	-	17,786	-	-	1	0	0			
0133	19,728	-	-	17,299	-	-	1	0	0			
0132	19,728	-	-	17,299	-	-	1	0	0			
0131	19,635	-	-	17,217	-	-	1	0	0			
200030	21,814	-	-	19,128	-	-	1	0	0			
200029	21,814	-	-	19,128	-	-	1	0	0			
200028	21,814	-	-	19,128	-	-	1	0	0			
200026	13,088	-	-	11,477	-	-	1	0	0			
200025	13,840	-	-	12,136	-	-	1	0	0			
200024	13,991	-	-	12,268	-	-	1	0	0			
200022	13,690	-	-	12,004	-	-	1	0	0			
200021	13,615	-	-	11,938	-	-	1	0	0			
200020	16,022	-	-	14,049	-	-	1	0	0			
200019	24,822	-	-	21,766	-	-	1	0	0			
200018	24,672	-	-	21,634	-	-	1	0	0			
94102	9,663	-	-	8,473	-	-	1	0	0			
93197	7,167	-	-	6,285	-	-	1	0	0			
93196	7,287	-	-	6,389	-	-	1	0	0			
93194	7,189	-	-	6,304	-	-	1	0	0			
93192	7,249	-	-	6,356	-	-	1	0	0			
93191	7,579	-	-	6,646	-	-	1	0	0			
93190	8,120	-	-	7,120	-	-	1	0	0			
92002	8,645	-	-	7,581	-	-	1	0	0			
92001	11,828	-	-	10,372	-	-	1	0	0			
90305	5,289	-	-	4,638	-	-	1	0	0			
90303	7,471	-	-	6,551	-	-	1	0	0			
90301	8,488	-	-	7,443	-	-	1	0	0			
89016	5,110	-	-	4,481	-	-	1	0	0			
89004	5,782	-	-	5,070	-	-	1	0	0			
89003	5,392	-	-	4,728	-	-	1	0	0			
89002	5,939	-	-	5,207	-	-	1	0	0			
89001	6,263	-	-	5,492	-	-	1	0	0			
87013	2,815	-	-	2,468	-	-	1	0	0			
87005	1,981	-	-	1,737	-	-	1	0	0			
85192	3,925	-	-	3,441	-	-	1	0	0			
9934	20,685	-	-	18,138	-	-	1	0	0			

serialno	beg			end			beg			end			beg			end		
	1/1/02	12/31/01	d2	1/1/02	12/31/01	d2	12/31/02	12/31/02	d1	12/31/02	12/31/02	d1	12/31/02	12/31/02	d2	12/31/02	12/31/02	d1
			d1			pl			pl			pl			countd2	countd1	pl	countpool
9872	-	4,534	-	-	-	3,976	-	-	0	1	-	0	-	0	0	0	0	
9871	-	4,534	-	-	-	3,976	-	-	0	1	-	0	-	0	0	0	0	
9672	-	3,125	-	-	-	2,740	-	-	0	1	-	0	-	0	0	0	0	
9671	-	3,125	-	-	-	2,740	-	-	0	1	-	0	-	0	0	0	0	
9670	-	2,987	-	-	-	2,619	-	-	0	1	-	0	-	0	0	0	0	
9669	-	2,619	-	-	-	2,297	-	-	0	1	-	0	-	0	0	0	0	
9668	-	2,389	-	-	-	2,095	-	-	0	1	-	0	-	0	0	0	0	
9667	-	2,849	-	-	-	2,498	-	-	0	1	-	0	-	0	0	0	0	
9665	-	7,067	-	-	-	6,197	-	-	0	1	-	0	-	0	0	0	0	
9664	-	6,667	-	-	-	5,846	-	-	0	1	-	0	-	0	0	0	0	
9663	-	6,934	-	-	-	6,080	-	-	0	1	-	0	-	0	0	0	0	
9662	-	6,867	-	-	-	6,022	-	-	0	1	-	0	-	0	0	0	0	
9658	-	8,716	-	-	-	7,642	-	-	0	1	-	0	-	0	0	0	0	
9654	-	8,245	-	-	-	7,229	-	-	0	1	-	0	-	0	0	0	0	
9653	-	8,142	-	-	-	7,139	-	-	0	1	-	0	-	0	0	0	0	
9320	-	3,906	-	-	-	3,425	-	-	0	1	-	0	-	0	0	0	0	
9318	-	3,492	-	-	-	3,062	-	-	0	1	-	0	-	0	0	0	0	
8538	-	827	-	-	-	725	-	-	0	1	-	0	-	0	0	0	0	
8537	-	873	-	-	-	766	-	-	0	1	-	0	-	0	0	0	0	
0182	17,598	-	-	-	-	-	-	-	0	0	-	0	-	0	0	0	0	
0182split	-	-	-	-	-	-	434	-	0	0	-	0	-	0	0	0	1	
0182split	-	-	-	-	-	-	2,222	-	0	0	-	0	-	0	0	0	1	
0182split	-	-	-	-	-	-	2,923	-	0	0	-	0	-	0	0	0	1	
0182split	-	-	-	-	-	-	1,834	-	0	0	-	0	-	0	0	0	1	
0182split	-	-	-	-	-	-	2,222	-	0	0	-	0	-	0	0	0	1	
0182split	-	-	-	-	-	-	1,801	-	0	0	-	0	-	0	0	0	1	
0182split	-	-	-	-	-	-	1,801	-	0	0	-	0	-	0	0	0	1	
0182split	-	-	-	-	-	-	-	-	0	0	-	0	-	0	0	0	0	
0182split	-	-	-	-	-	-	2,107	-	0	0	-	0	-	0	0	0	1	
0182split	-	-	-	-	-	-	2,069	-	0	0	-	0	-	0	0	0	1	
0182split	-	-	-	-	-	-	2,014	-	0	0	-	0	-	0	0	0	1	
0182split	-	-	-	-	-	-	-	-	0	0	-	0	-	0	0	0	0	
0182split	-	-	-	-	-	-	2,036	-	0	0	-	0	-	0	0	0	1	
0181	28,897	-	-	25,339	-	-	-	-	1	0	-	0	-	0	0	0	0	
0180	32,084	-	-	28,133	-	-	-	-	1	0	-	0	-	0	0	0	0	
0178	13,872	-	-	12,164	-	-	-	-	1	0	-	0	-	0	0	0	0	
0175	13,564	-	-	11,894	-	-	-	-	1	0	-	0	-	0	0	0	0	
0171	14,452	-	-	12,672	-	-	-	-	1	0	-	0	-	0	0	0	0	
0138	20,191	-	-	17,705	-	-	-	-	1	0	-	0	-	0	0	0	0	

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serialno	beg 1/1/02	beg 12/31/01	beg 1/1/02	end 12/31/01	end 12/31/02	end 12/31/02	d2 countd2	d1 countd1	pl countpool
	d2	d1	pl	d2	d1	pl			
	cicalcbegd2	calcbegd1	cicalcbegpl	cicalcbepl	cicalcendd2	cicalcendd1			
85001	-	4,319	-	-	3,788	-	0	1	0
83347	-	505	-	-	443	-	0	1	0
83345	-	643	-	-	564	-	0	1	0
83344	-	689	-	-	604	-	0	1	0
83114	-	933	-	-	818	-	0	1	0
83113	-	933	-	-	818	-	0	1	0
83112	-	1,000	-	-	877	-	0	1	0
83111	-	1,000	-	-	877	-	0	1	0
83110	-	1,000	-	-	877	-	0	1	0
83109	-	1,000	-	-	877	-	0	1	0
83108	-	1,000	-	-	877	-	0	1	0
83107	-	1,000	-	-	877	-	0	1	0
83106	-	1,000	-	-	877	-	0	1	0
83105	-	1,000	-	-	877	-	0	1	0
83104	-	1,000	-	-	877	-	0	1	0
83103	-	1,000	-	-	877	-	0	1	0
83102	-	1,000	-	-	877	-	0	1	0
83101	-	1,000	-	-	877	-	0	1	0
9969	-	2,205	-	-	1,934	-	0	1	0
9968	-	2,129	-	-	1,867	-	0	1	0
9967	-	2,205	-	-	1,934	-	0	1	0
9966	-	2,509	-	-	2,200	-	0	1	0
9965	-	2,205	-	-	1,934	-	0	1	0
9952	-	1,673	-	-	1,467	-	0	1	0
9951	-	1,597	-	-	1,400	-	0	1	0
9950	-	1,673	-	-	1,467	-	0	1	0
9949	-	1,597	-	-	1,400	-	0	1	0
9948	-	1,445	-	-	1,267	-	0	1	0
9947	-	1,445	-	-	1,267	-	0	1	0
9946	-	1,825	-	-	1,600	-	0	1	0
9945	-	1,597	-	-	1,400	-	0	1	0
9944	-	1,673	-	-	1,467	-	0	1	0
9943	-	1,445	-	-	1,267	-	0	1	0
9942	-	1,901	-	-	1,667	-	0	1	0
9941	-	1,673	-	-	1,467	-	0	1	0
9876	-	4,200	-	-	3,683	-	0	1	0
9875	-	4,067	-	-	3,566	-	0	1	0
9874	-	4,067	-	-	3,566	-	0	1	0
9873	-	4,067	-	-	3,566	-	0	1	0

serialno	beg 1/1/02	beg 12/31/01	beg 12/31/01	end 12/31/02	end 12/31/02	end 12/31/02	d2 countd2	d1 countd1	pl countpool
	d2	d1	pl	d2	d1	pl			
	cicalcbegd2	calcbegd1	cicalcbegpl	cicalcendd2	cicalcendd1	cicalcdpl			
93149	-	1,424	-	-	1,249	-	0	1	0
93148	-	1,424	-	-	1,249	-	0	1	0
93147	-	1,379	-	-	1,209	-	0	1	0
93146	-	1,287	-	-	1,128	-	0	1	0
93145	-	1,287	-	-	1,128	-	0	1	0
93144	-	1,149	-	-	1,007	-	0	1	0
93141	-	781	-	-	685	-	0	1	0
93140	-	827	-	-	725	-	0	1	0
93136	-	1,103	-	-	967	-	0	1	0
93135	-	1,103	-	-	967	-	0	1	0
93134	-	1,103	-	-	967	-	0	1	0
93133	-	1,149	-	-	1,007	-	0	1	0
93132	-	1,149	-	-	1,007	-	0	1	0
93131	-	1,149	-	-	1,007	-	0	1	0
93130	-	1,195	-	-	1,048	-	0	1	0
93128	-	1,149	-	-	1,007	-	0	1	0
93127	-	1,149	-	-	1,007	-	0	1	0
93126	-	1,149	-	-	1,007	-	0	1	0
93125	-	1,103	-	-	967	-	0	1	0
92402	-	3,492	-	-	3,062	-	0	1	0
91326	-	2,665	-	-	2,337	-	0	1	0
91322	-	2,711	-	-	2,377	-	0	1	0
90304	-	6,334	-	-	5,554	-	0	1	0
89015	-	6,801	-	-	5,963	-	0	1	0
89009	-	4,136	-	-	3,626	-	0	1	0
89007	-	4,136	-	-	3,626	-	0	1	0
89005	-	4,319	-	-	3,788	-	0	1	0
87039	-	4,090	-	-	3,586	-	0	1	0
87038	-	4,182	-	-	3,667	-	0	1	0
87037	-	3,998	-	-	3,505	-	0	1	0
87036	-	4,090	-	-	3,586	-	0	1	0
87033	-	4,136	-	-	3,626	-	0	1	0
87032	-	4,136	-	-	3,626	-	0	1	0
87031	-	4,227	-	-	3,707	-	0	1	0
87030	-	4,044	-	-	3,546	-	0	1	0
85149	-	689	-	-	604	-	0	1	0
85004	-	3,768	-	-	3,304	-	0	1	0
85003	-	4,136	-	-	3,626	-	0	1	0
85002	-	4,227	-	-	3,707	-	0	1	0

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serialno	beg			end			d2 countd2	d1 countd1	pl countpool
	1/1/02	1/1/02	1/1/02	12/31/01	12/31/01	12/31/01			
	d2	d1	pl	12/31/01	12/31/02	12/31/02			
cicalcbegd2	calcbegd1	cicalcbegpl	cicalcendd2	icalcendd1	cicalcendpl				
973	-	11,179	-	-	9,802	-	0	1	0
972	-	10,387	-	-	9,108	-	0	1	0
9666	-	8,508	-	-	7,460	-	0	1	0
92401	-	11,179	-	-	9,802	-	0	1	0
923	-	8,804	-	-	7,720	-	0	1	0
0191	-	3,957	-	-	3,470	-	0	1	0
0190	-	4,155	-	-	3,643	-	0	1	0
0189	-	3,166	-	-	2,776	-	0	1	0
0188	-	2,671	-	-	2,342	-	0	1	0
0187	-	2,671	-	-	2,342	-	0	1	0
0186	-	2,968	-	-	2,602	-	0	1	0
0185	-	4,452	-	-	3,904	-	0	1	0
0184	-	4,155	-	-	3,643	-	0	1	0
01114	-	1,583	-	-	1,388	-	0	1	0
01113	-	1,583	-	-	1,388	-	0	1	0
01112	-	1,583	-	-	1,388	-	0	1	0
01111	-	1,682	-	-	1,475	-	0	1	0
01110	-	1,484	-	-	1,301	-	0	1	0
01109	-	1,286	-	-	1,128	-	0	1	0
01108	-	1,583	-	-	1,388	-	0	1	0
01107	-	1,583	-	-	1,388	-	0	1	0
01106	-	1,682	-	-	1,475	-	0	1	0
01105	-	1,484	-	-	1,301	-	0	1	0
01104	-	1,484	-	-	1,301	-	0	1	0
01103	-	1,484	-	-	1,301	-	0	1	0
01102	-	1,484	-	-	1,301	-	0	1	0
01101	-	1,484	-	-	1,301	-	0	1	0
0031	-	11,475	-	-	10,062	-	0	1	0
94001	-	8,234	-	-	7,220	-	0	1	0
93302	-	3,125	-	-	2,740	-	0	1	0
93195	-	7,401	-	-	6,489	-	0	1	0
93193.1	-	3,630	-	-	3,183	-	0	1	0
93193	-	7,401	-	-	6,489	-	0	1	0
93158	-	1,103	-	-	967	-	0	1	0
93157	-	919	-	-	806	-	0	1	0
93154	-	1,103	-	-	967	-	0	1	0
93153	-	1,149	-	-	1,007	-	0	1	0
93152	-	1,103	-	-	967	-	0	1	0
93150	-	1,470	-	-	1,289	-	0	1	0

irradinv02

## NEUTRON PRODUCTS, INC.

COBALT-60 IN IRRADIATORS

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irrad	reccdate	recfrom	manuf	model	serialno	slugno	ci	codate	shipdate	shipto:hiptoname	split	tto
pl	12/15/99 d1	npi	nprp		79259		1,300	2/1/96				
pl	12/31/97 orig	npi	nprp		79258		1,578	5/1/93				
pl	12/15/99 d1	npi	nprp		79257		1,200	2/1/96				
pl	12/31/97 orig	npi	nprp		79256		1,539	5/1/93				
pl	12/31/97 orig	npi	nprp		79255		1,485	5/1/93				
pl	12/31/97 orig	npi	nprp		79254		1,628	5/1/93				
pl	12/15/99 d1	npi	nprp		79253		1,200	2/1/96				
pl	12/15/99 d1	npi	nprp		79252		1,300	2/1/96				
pl	12/31/97 orig	npi	nprp		79246		1,553	5/1/93				
pl	12/31/97 orig	npi	nprp		79244		1,478	5/1/93				
pl	12/31/97 orig	npi	nprp		79235		1,339	5/1/93				
pl	12/31/97 orig	npi	nprp		79216		1,649	5/1/93				
pl	12/31/97 orig	npi	nprp		79143		700	2/1/96				
pl	12/31/97 orig	npi	nprp		79136		700	2/1/96				
pl	12/31/97 orig	npi	nprp		79132		800	2/1/96				
pl	4/27/00 d2	npi	nprp		9801		25,600	12/1/98				
pl	11/13/01 d1	npi	nprp		8914		1,400	2/1/96				
pl	12/15/99 d1	npi	nprp		8912		1,500	2/1/96				
pl	12/15/99 d1	npi	nprp		8536		1,400	2/1/96				
pl	12/31/97 orig	npi	nprp		8535		700	2/1/96				
pl	11/30/98 d1	npi	nprp		8534		1,606	5/1/93				
pl	11/13/01 d1	npi	nprp		8532		1,800	2/1/96				
pl	11/30/98 d1	npi	nprp		8530		1,776	5/1/93				
pl	12/15/99 d1	npi	nprp		8528		1,300	2/1/96				
pl	11/30/98 d1	npi	nprp		8526		1,586	5/1/93				
pl	11/30/98 d1	npi	nprp		8524		1,758	5/1/93				
pl	12/15/99 d1	npi	nprp		8523		1,500	2/1/96				
pl	12/31/97 orig	npi	nprp		8522		1,100	2/1/96				
pl	11/30/98 d1	npi	nprp		8521		1,573	5/1/93				
pl	12/31/97 orig	npi	nprp		3		600	2/1/96				
pl	12/31/97 orig	npi	nprp		2		600	2/1/96				
pl	12/31/97 orig	npi	nprp		1		600	2/1/96				

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**NEUTRON PRODUCTS, INC.**  
**COBALT-60 IN IRRADIATORS**

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irrad	reccdate	recfrom	manuf	model	serialno	slugno	ci	cdate	shipdate	shipto:hptioname	split	tto
pl	12/31/97 orig	npi	nprp		83341		1,100	2/1/96				
pl	11/13/01 d1	npi	nprp		83338		1,400	2/1/96				
pl	12/31/97 orig	npi	nprp		83336		1,000	2/1/96				
pl	12/31/97 orig	npi	nprp		83324		900	2/1/96				
pl	12/31/97 orig	npi	nprp		83323		700	2/1/96				
pl	12/31/97 orig	npi	nprp		83321		900	2/1/96				
pl	12/15/99 d1	npi	nprp		83320		1,200	2/1/96				
pl	12/15/99 d1	npi	nprp		83319		1,200	2/1/96				
pl	11/13/01 d1	npi	nprp		83318		1,400	2/1/96				
pl	12/31/97 orig	npi	nprp		83317		1,100	2/1/96				
pl	12/15/99 d1	npi	nprp		83316		1,100	2/1/96				
pl	12/31/97 orig	npi	nprp		83315		1,100	2/1/96				
pl	11/13/01 d1	npi	nprp		83314		1,400	2/1/96				
pl	12/15/99 d1	npi	nprp		83313		1,200	2/1/96				
pl	12/15/99 d1	npi	nprp		83312		1,100	2/1/96				
pl	12/31/97 orig	npi	nprp		83311		1,100	2/1/96				
pl	12/15/99 d1	npi	nprp		83310		1,300	2/1/96				
pl	12/31/97 orig	npi	nprp		83309		1,100	2/1/96				
pl	12/31/97 orig	npi	nprp		83308		1,000	2/1/96				
pl	12/15/99 d1	npi	nprp		83307		1,200	2/1/96				
pl	12/15/99 d1	npi	nprp		83306		1,200	2/1/96				
pl	11/13/01 d1	npi	nprp		83305		1,300	2/1/96				
pl	11/13/01 d1	npi	nprp		83304		1,400	2/1/96				
pl	12/15/99 d1	npi	nprp		83303		1,300	2/1/96				
pl	12/31/97 orig	npi	nprp		83302		1,100	2/1/96				
pl	12/15/99 d1	npi	nprp		83301		1,100	2/1/96				
pl	12/15/99 d1	npi	nprp		83148		1,200	2/1/96				
pl	12/31/97 orig	npi	nprp		79290		1,571	5/1/93				
pl	12/31/97 orig	npi	nprp		79287		1,489	5/1/93				
pl	12/31/97 orig	npi	nprp		79285		1,475	5/1/93				
pl	12/31/97 orig	npi	nprp		79279		1,653	5/1/93				
pl	12/31/97 orig	npi	nprp		79278		1,642	5/1/93				
pl	12/31/97 orig	npi	nprp		79275		1,578	5/1/93				
pl	12/31/97 orig	npi	nprp		79273		1,479	5/1/93				
pl	12/31/97 orig	npi	nprp		79270		1,664	5/1/93				
pl	12/31/97 orig	npi	nprp		79266		1,489	5/1/93				
pl	12/15/99 d1	npi	nprp		79264		1,200	2/1/96				
pl	11/13/01 d1	npi	nprp		79263		1,400	2/1/96				
pl	11/13/01 d1	npi	nprp		79260		1,300	2/1/96				

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**NEUTRON PRODUCTS, INC.**  
**COBALT-60 IN IRRADIATORS**

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irrad	recdate	recfrom	manuf	model	serialno	slugno	ci	cidate	shipdate	shipto : hiptoname	split	tto
pl	11/8/01 d2	npi	nprp		0177		14,670	4/1/01				
pl	11/8/01 d2	npi	nprp		0176		15,310	4/1/01	1/1/02 split	0176split		
pl	1/1/02 0176split	arg	rodlets	rodlets-7 to T1533			6,699	4/1/01				
pl	1/1/02 0176split	arg	rodlets	rodlets-9 leftover			8,611	4/1/01				
pl	11/8/01 d2	npi	nprp		0174		14,670	4/1/01				
pl	11/8/01 d2	npi	nprp		200027		17,500	11/1/99				
pl	11/8/01 d2	npi	nprp		200023		18,300	11/1/99	1/1/02 split	200023split		
pl	1/1/02 200023spli	arg	rodlets	rodlets-8 to T1534			4,240	11/1/99				T1534
pl	1/1/02 200023spli	arg	rodlets	rodlets-7 to T1535			3,710	11/1/99	3/26/02	3699 univ of georgia		T1535
pl	1/1/02 200023spli	arg	rodlets	rodlets-31 leftover			10,270	11/1/99				
pl	11/13/01 d1	npi	nprp		93156		1,600	2/1/96				
pl	11/13/01 d1	npi	nprp		93155		1,600	2/1/96				
pl	11/13/01 d1	npi	nprp		93143		1,800	2/1/96				
pl	11/13/01 d1	npi	nprp		93142		1,600	2/1/96				
pl	12/31/97 orig	npi	nprp		93125		5,980	5/1/93				
pl	12/31/97 orig	npi	nprp		93124		5,860	5/1/93				
pl	12/31/97 orig	npi	nprp		93122		5,810	5/1/93				
pl	12/31/97 orig	npi	nprp		93121		5,950	5/1/93				
pl	12/31/97 orig	npi	nprp		93120		5,840	5/1/93				
pl	11/13/01 d1	npi	nprp		91327		4,000	2/1/96				
pl	11/13/01 d1	npi	nprp		91325		5,400	2/1/96				
pl	12/15/99 d1	npi	nprp		91324		4,000	2/1/96				
pl	12/15/99 d1	npi	nprp		91323		4,300	2/1/96				
pl	12/15/99 d1	npi	nprp		91318		3,700	2/1/96				
pl	11/30/98 d1	npi	nprp		91314		3,906	5/1/93				
pl	12/15/99 d1	npi	nprp		91312		3,700	2/1/96				
pl	11/30/98 d1	npi	nprp		89030		3,845	5/1/93				
pl	11/30/98 d1	npi	nprp		89028		3,816	5/1/93				
pl	11/30/98 d1	npi	nprp		89025		3,643	5/1/93				
pl	11/13/01 d1	npi	nprp		89010		5,900	2/1/96				
pl	11/1/99 d2	npi	nprp		87025		4,433	12/31/97				
pl	11/1/99 d2	npi	nprp		87006		3,985	12/31/97				
pl	11/13/01 d1	npi	nprp		85191		4,800	2/1/96				
pl	4/3/00 d2	npi	nprp		85190		4,241	12/31/97				
pl	4/3/00 d2	npi	nprp		84204		3,637	12/31/97				
pl	11/13/01 d1	npi	nprp		84202		4,400	2/1/96				
pl	12/15/99 d1	npi	nprp		83346		1,300	2/1/96				
pl	12/31/97 orig	npi	nprp		83343		800	2/1/96				
pl	11/13/01 d1	npi	nprp		83342		1,400	2/1/96				

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NEUTRON PRODUCTS, INC.

COBALT-60 IN IRRADIATORS

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irrad	reccdate	recfrom	manuf	model	serialno	slugno	ci	cdate	shipdate	shipto:hiptoname	split	tto
d2	11/1/99	rdp99.3	npi	nprp	9933		27,500	11/1/99				
d2	11/1/99	rdp99.3	npi	nprp	9932		29,000	11/1/99				
d2	11/1/99	rdp99.3	npi	nprp	9931		28,000	11/1/99				
d2	6/30/99	rdp99.2	npi	nprp	9908		7,500	11/1/99				
d2	6/30/99	rdp99.2	npi	nprp	9907		7,100	11/1/99				
d2	6/30/99	rdp99.2	npi	nprp	9906		7,200	11/1/99				
d2	6/30/99	rdp99.2	npi	nprp	9905		7,400	11/1/99				
d2	6/30/99	rdp99.2	npi	nprp	9904		6,700	11/1/99				
d2	6/30/99	rdp99.2	npi	nprp	9902		6,900	11/1/99				
d2	6/30/99	rdp99.2	npi	nprp	9901		6,900	11/1/99				
d2	12/1/98	rdp98.4	npi	nprp	9815		24,600	12/1/98				
d2	12/1/98	rdp98.4	npi	nprp	9814		24,600	12/1/98				
d2	12/1/98	rdp98.4	npi	nprp	9813		24,600	12/1/98				
d2	12/1/98	rdp98.4	npi	nprp	9812		25,000	12/1/98				
d2	12/1/98	rdp98.4	npi	nprp	9811		24,800	12/1/98				
d2	12/1/98	rdp98.4	npi	nprp	9810		24,600	12/1/98				
d2	12/1/98	rdp98.4	npi	nprp	9809		24,700	12/1/98				
d2	12/1/98	rdp98.4	npi	nprp	9808		25,000	12/1/98				
d2	12/1/98	rdp98.4	npi	nprp	9806		24,100	12/1/98				
d2	12/1/98	rdp98.4	npi	nprp	9805		24,400	12/1/98				
d2	12/1/98	rdp98.4	npi	nprp	9804		24,400	12/1/98				
d2	12/1/98	rdp98.4	npi	nprp	9803		24,700	12/1/98				
d2	12/31/97	orig	npi	nprp	9660		12,009	12/31/97				
d2	12/31/97	orig	npi	nprp	9659		12,091	12/31/97				
d2	12/31/97	orig	npi	nprp	9657		13,877	12/31/97				
d2	12/31/97	orig	npi	nprp	9656		13,758	12/31/97				
d2	12/31/97	orig	npi	nprp	9655		12,797	12/31/97				
d2	12/31/97	orig	npi	nprp	9551		19,932	12/31/97				
d2	12/31/97	orig	npi	nprp	9550		21,324	12/31/97				
d2	4/27/00	pl	npi	nprp	8525		1,863	5/1/93				
d2	6/30/99	rdp99.4	npi	nprp	986		15,700	11/1/99				
d2	6/30/99	rdp99.4	npi	nprp	981		24,200	11/1/99				
d2	12/31/97	orig	npi	nprp	979		26,995	12/31/97				
d2	12/31/97	orig	npi	nprp	978		21,563	12/31/97				
pl	11/13/01	d1	npi	nprp	8913R		1,700	2/1/96				
pl	11/13/01	d1	npi	nprp	8911R		1,800	2/1/96				
pl	11/13/01	d1	npi	nprp	84203A		4,300	2/1/96				
pl	11/8/01	d2	npi	nprp	0183		27,700	6/1/01	1/1/02	d2		
d2	1/1/02	pl	npi	nprp	0183		27,700	6/1/01				

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**NEUTRON PRODUCTS, INC.**  
**COBALT-60 IN IRRADIATORS**

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irrad	recdate	recfrom	manuf	model	serialno	slugno	ci	cdate	shipdate	shipto : hiptoname	split	tto
d2	11/8/01	rdp01.1	npi	nprp	0137		21,600	6/1/01				
d2	11/8/01	rdp01.1	npi	nprp	0136		22,100	6/1/01				
d2	11/8/01	rdp01.1	npi	nprp	0135		21,600	6/1/01				
d2	11/8/01	rdp01.1	npi	nprp	0134		21,900	6/1/01				
d2	11/8/01	rdp01.1	npi	nprp	0133		21,300	6/1/01				
d2	11/8/01	rdp01.1	npi	nprp	0132		21,300	6/1/01				
d2	11/8/01	rdp01.1	npi	nprp	0131		21,200	6/1/01				
d2	4/3/00	rdp00.2.5	npi	nprp	200030		29,000	11/1/99				
d2	4/3/00	rdp00.2.5	npi	nprp	200029		29,000	11/1/99				
d2	4/3/00	rdp00.2.5	npi	nprp	200028		29,000	11/1/99				
d2	4/3/00	rdp00.2.4	npi	nprp	200026		17,400	11/1/99				
d2	4/3/00	rdp00.2.4	npi	nprp	200025		18,400	11/1/99				
d2	4/3/00	rdp00.2.4	npi	nprp	200024		18,600	11/1/99				
d2	4/3/00	rdp00.2.4	npi	nprp	200022		18,200	11/1/99				
d2	4/3/00	rdp00.2.4	npi	nprp	200021		18,100	11/1/99				
d2	3/13/00	rdp00.2.3	npi	nprp	200020		21,300	11/1/99				
d2	3/13/00	rdp00.2.2	npi	nprp	200019		33,000	11/1/99				
d2	3/13/00	rdp00.2.1	npi	nprp	200018		32,800	11/1/99				
d2	12/31/97	orig	npi	nprp	94102		16,351	12/31/97				
d2	12/31/97	orig	npi	nprp	93197		12,128	12/31/97				
d2	12/31/97	orig	npi	nprp	93196		12,329	12/31/97				
d2	12/31/97	orig	npi	nprp	93194		12,164	12/31/97				
d2	12/31/97	orig	npi	nprp	93192		12,265	12/31/97				
d2	12/31/97	orig	npi	nprp	93191		12,824	12/31/97				
d2	12/31/97	orig	npi	nprp	93190		13,740	12/31/97				
d2	12/31/97	orig	npi	nprp	92002		14,629	12/31/97				
d2	12/31/97	orig	npi	nprp	92001		20,015	12/31/97				
d2	12/31/97	orig	npi	nprp	90305		8,949	12/31/97				
d2	12/31/97	orig	npi	nprp	90303		12,641	12/31/97				
d2	12/31/97	orig	npi	nprp	90301		14,363	12/31/97				
d2	12/31/97	orig	npi	nprp	89016		8,647	12/31/97				
d2	12/31/97	orig	npi	nprp	89004		9,783	12/31/97				
d2	12/31/97	orig	npi	nprp	89003		9,123	12/31/97				
d2	12/31/97	orig	npi	nprp	89002		10,049	12/31/97				
d2	12/31/97	orig	npi	nprp	89001		10,598	12/31/97				
d2	12/31/97	orig	npi	nprp	87013		4,763	12/31/97				
d2	12/31/97	orig	npi	nprp	87005		3,353	12/31/97				
d2	4/27/00	pl	npi	nprp	85192		6,641	12/31/97				
d2	11/1/99	rdp99.3	npi	nprp	9934		27,500	11/1/99				

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**NEUTRON PRODUCTS, INC.**  
**COBALT-60 IN IRRADIATORS**

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irrad	reccdate	recfrom	manuf	model	serialno	slugno	ci	cdate	shipdate	shipto : hiptoname	split	lto
d1	12/1/98	rdp98.10	npi	nprp	9872		6,800	12/1/98				
d1	12/1/98	rdp98.10	npi	nprp	9871		6,800	12/1/98				
d1	12/31/97	orig	npi	nprp	9672		6,800	2/1/96				
d1	12/31/97	orig	npi	nprp	9671		6,800	2/1/96				
d1	12/31/97	orig	npi	nprp	9670		6,500	2/1/96				
d1	12/31/97	orig	npi	nprp	9669		5,700	2/1/96				
d1	12/31/97	orig	npi	nprp	9668		5,200	2/1/96				
d1	12/31/97	orig	npi	nprp	9667		6,200	2/1/96				
d1	12/1/98	d2	npi	nprp	9665		10,600	12/1/98				
d1	12/1/98	d2	npi	nprp	9664		10,000	12/1/98				
d1	12/1/98	d2	npi	nprp	9663		10,400	12/1/98				
d1	12/1/98	d2	npi	nprp	9662		10,300	12/1/98				
d1	11/1/99	d2	npi	nprp	9658		14,748	12/31/97				
d1	11/1/99	d2	npi	nprp	9654		13,951	12/31/97				
d1	11/1/99	d2	npi	nprp	9653		13,777	12/31/97				
d1	12/31/97	orig	npi	nprp	9320		8,500	2/1/96				
d1	12/31/97	orig	npi	nprp	9318		7,600	2/1/96				
d1	12/31/97	orig	npi	nprp	8538		1,800	2/1/96				
d1	12/31/97	orig	npi	nprp	8537		1,900	2/1/96				
d2	5/30/01	rdp01.2	npi	nprp	0182		19,000	6/1/01	1/1/02 split	0182split		
pl	1/1/02	0182split	npi	nptt	0182split	911347	1970	7/1/91				
pl	1/1/02	0182split	npi	nptt	0182split	981676	4060	6/1/98				
pl	1/1/02	0182split	npi	nptt	0182split	981678	5340	6/1/98				
pl	1/1/02	0182split	npi	nptt	0182split	981679	3350	6/1/98				
pl	1/1/02	0182split	npi	nptt	0182split	981709	4060	6/1/98				
pl	1/1/02	0182split	npi	nptt	0182split	981711	3290	6/1/98				
pl	1/1/02	0182split	npi	nptt	0182split	981712	3290	6/1/98				
pl	1/1/02	0182split	npi	nptt	0182split	981713	4190	6/1/98	3/26/02	3459 univ of alabama	T1531	
pl	1/1/02	0182split	npi	nptt	0182split	981714	3850	6/1/98				
pl	1/1/02	0182split	npi	nptt	0182split	981715	3780	6/1/98			T1532	
pl	1/1/02	0182split	npi	nptt	0182split	981716	3680	6/1/98			T1532	
pl	1/1/02	0182split	npi	nptt	0182split	981748	3720	6/1/98	3/26/02	3459 univ of alabama	T1531	
pl	1/1/02	0182split	npi	nptt	0182split	981749	3720	6/1/98				
d2	5/30/01	rdp01.2	npi	nprp	0181		31,200	6/1/01				
d2	5/30/01	rdp01.2	npi	nprp	0180		35,410	4/1/01				
d2	5/30/01	rdp01.2	npi	nprp	0178		15,310	4/1/01				
d2	5/30/01	rdp01.2	npi	nprp	0175		14,970	4/1/01				
d2	5/30/01	rdp01.2	npi	nprp	0171		15,950	4/1/01				
d2	11/8/01	rdp01.1	npi	nprp	0138		21,800	6/1/01				

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Teletypewriter Logbook

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irradinv02

NEUTRON PRODUCTS, INC.

COBALT-60 IN IRRADIATORS

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irrad	recdate	recfrom	manuf	model	serialno	slugno	ci	cdate	shipdate	shipto:hptoname	split	tto
d1	12/31/97	orig	npi	nprp	85001		9,400	2/1/96				
d1	12/31/97	orig	npi	nprp	83347		1,100	2/1/96				
d1	12/31/97	orig	npi	nprp	83345		1,400	2/1/96				
d1	12/31/97	orig	npi	nprp	83344		1,500	2/1/96				
d1	12/1/98	3392	npi	nprp	83114		1,400	12/1/98				
d1	12/1/98	3392	npi	nprp	83113		1,400	12/1/98				
d1	12/1/98	3392	npi	nprp	83112		1,500	12/1/98				
d1	12/1/98	3392	npi	nprp	83111		1,500	12/1/98				
d1	12/1/98	3392	npi	nprp	83110		1,500	12/1/98				
d1	12/1/98	3392	npi	nprp	83109		1,500	12/1/98				
d1	12/1/98	3392	npi	nprp	83108		1,500	12/1/98				
d1	12/1/98	3392	npi	nprp	83107		1,500	12/1/98				
d1	12/1/98	3392	npi	nprp	83106		1,500	12/1/98				
d1	12/1/98	3392	npi	nprp	83105		1,500	12/1/98				
d1	12/1/98	3392	npi	nprp	83104		1,500	12/1/98				
d1	12/1/98	3392	npi	nprp	83103		1,500	12/1/98				
d1	12/1/98	3392	npi	nprp	83102		1,500	12/1/98				
d1	12/1/98	3392	npi	nprp	83101		1,500	12/1/98				
d1	12/15/99	rdp99.6	npi	nprp	9969		2,900	12/1/99				
d1	12/15/99	rdp99.6	npi	nprp	9968		2,800	12/1/99				
d1	12/15/99	rdp99.6	npi	nprp	9967		2,900	12/1/99				
d1	12/15/99	rdp99.6	npi	nprp	9966		3,300	12/1/99				
d1	12/15/99	rdp99.6	npi	nprp	9965		2,900	12/1/99				
d1	12/15/99	rdp99.51	npi	nprp	9952		2,200	12/1/99				
d1	12/15/99	rdp99.51	npi	nprp	9951		2,100	12/1/99				
d1	12/15/99	rdp99.51	npi	nprp	9950		2,200	12/1/99				
d1	12/15/99	rdp99.51	npi	nprp	9949		2,100	12/1/99				
d1	12/15/99	rdp99.51	npi	nprp	9948		1,900	12/1/99				
d1	12/15/99	rdp99.51	npi	nprp	9947		1,900	12/1/99				
d1	12/15/99	rdp99.51	npi	nprp	9946		2,400	12/1/99				
d1	12/15/99	rdp99.51	npi	nprp	9945		2,100	12/1/99				
d1	12/15/99	rdp99.51	npi	nprp	9944		2,200	12/1/99				
d1	12/15/99	rdp99.51	npi	nprp	9943		1,900	12/1/99				
d1	12/15/99	rdp99.51	npi	nprp	9942		2,500	12/1/99				
d1	12/15/99	rdp99.51	npi	nprp	9941		2,200	12/1/99				
d1	12/1/98	rdp98.10	npi	nprp	9876		6,300	12/1/98				
d1	12/1/98	rdp98.10	npi	nprp	9875		6,100	12/1/98				
d1	12/1/98	rdp98.10	npi	nprp	9874		6,100	12/1/98				
d1	12/1/98	rdp98.10	npi	nprp	9873		6,100	12/1/98				

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irradinv02

**NEUTRON PRODUCTS, INC.**  
**COBALT-60 IN IRRADIATORS**

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irrad	recdate	recfrom	manuf	model	serialno	slugno	ci	cdate	shipdate	shipto : hiptoname	split	tto
d1	12/31/97 orig	npi	nprp		93149		3,100	2/1/96				
d1	12/31/97 orig	npi	nprp		93148		3,100	2/1/96				
d1	12/31/97 orig	npi	nprp		93147		3,000	2/1/96				
d1	12/31/97 orig	npi	nprp		93146		2,800	2/1/96				
d1	12/31/97 orig	npi	nprp		93145		2,800	2/1/96				
d1	12/31/97 orig	npi	nprp		93144		2,500	2/1/96				
d1	12/31/97 orig	npi	nprp		93141		1,700	2/1/96				
d1	12/31/97 orig	npi	nprp		93140		1,800	2/1/96				
d1	12/31/97 orig	npi	nprp		93136		2,400	2/1/96				
d1	12/31/97 orig	npi	nprp		93135		2,400	2/1/96				
d1	12/31/97 orig	npi	nprp		93134		2,400	2/1/96				
d1	12/31/97 orig	npi	nprp		93133		2,500	2/1/96				
d1	12/31/97 orig	npi	nprp		93132		2,500	2/1/96				
d1	12/31/97 orig	npi	nprp		93131		2,500	2/1/96				
d1	12/31/97 orig	npi	nprp		93130		2,600	2/1/96				
d1	12/31/97 orig	npi	nprp		93128		2,500	2/1/96				
d1	12/31/97 orig	npi	nprp		93127		2,500	2/1/96				
d1	12/31/97 orig	npi	nprp		93126		2,500	2/1/96				
d1	12/31/97 orig	npi	nprp		93125		2,400	2/1/96				
d1	12/31/97 orig	npi	nprp		92402		7,600	2/1/96				
d1	12/31/97 orig	npi	nprp		91326		5,800	2/1/96				
d1	12/31/97 orig	npi	nprp		91322		5,900	2/1/96				
d1	12/1/98 d2	npi	nprp		90304		9,500	12/1/98				
d1	12/1/98 d2	npi	nprp		89015		10,200	12/1/98				
d1	12/31/97 orig	npi	nprp		89009		9,000	2/1/96				
d1	12/31/97 orig	npi	nprp		89007		9,000	2/1/96				
d1	12/31/97 orig	npi	nprp		89005		9,400	2/1/96				
d1	12/31/97 orig	npi	nprp		87039		8,900	2/1/96				
d1	12/31/97 orig	npi	nprp		87038		9,100	2/1/96				
d1	12/31/97 orig	npi	nprp		87037		8,700	2/1/96				
d1	12/31/97 orig	npi	nprp		87036		8,900	2/1/96				
d1	12/31/97 orig	npi	nprp		87033		9,000	2/1/96				
d1	12/31/97 orig	npi	nprp		87032		9,000	2/1/96				
d1	12/31/97 orig	npi	nprp		87031		9,200	2/1/96				
d1	12/31/97 orig	npi	nprp		87030		8,800	2/1/96				
d1	12/31/97 orig	npi	nprp		85149		1,500	2/1/96				
d1	12/31/97 orig	npi	nprp		85004		8,200	2/1/96				
d1	12/31/97 orig	npi	nprp		85003		9,000	2/1/96				
d1	12/31/97 orig	npi	nprp		85002		9,200	2/1/96				

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NOTE: THIS INVENTORY DOES NOT INCLUDE THE DI LOW ACTIVITY  
SOURCE PLARUE.

irradinv02

NEUTRON PRODUCTS, INC.  
COBALT-60 IN IRRADIATORS

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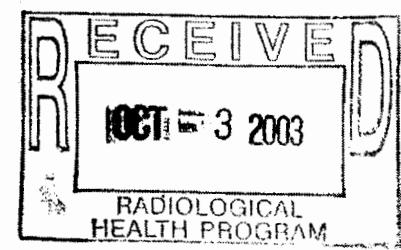
irrad	reccreate	recfrom	manuf	model	serialno	slugno	ci	cdate	shipdate	shipto:hptoname	split	tto
d1	11/13/01 d2	npi	nprp		973		11,300	12/1/01				
d1	11/13/01 d2	npi	nprp		972		10,500	12/1/01				
d1	11/13/01 d2	npi	nprp		9666		8,600	12/1/01				
d1	11/13/01 d2	npi	nprp		92401		11,300	12/1/01				
d1	11/13/01 d2	npi	nprp		923		8,900	12/1/01				
d1	11/13/01 rdp01.4	npi	nprp		0191		4,000	12/1/01				
d1	11/13/01 rdp01.4	npi	nprp		0190		4,200	12/1/01				
d1	11/13/01 rdp01.3	npi	nprp		0189		3,200	12/1/01				
d1	11/13/01 rdp01.3	npi	nprp		0188		2,700	12/1/01				
d1	11/13/01 rdp01.3	npi	nprp		0187		2,700	12/1/01				
d1	11/13/01 rdp01.3	npi	nprp		0186		3,000	12/1/01				
d1	11/13/01 rdp01.3	npi	nprp		0185		4,500	12/1/01				
d1	11/13/01 rdp01.3	npi	nprp		0184		4,200	12/1/01				
d1	11/13/01 rdp01.2	npi	nprp		01114		1,600	12/1/01			2	
d1	11/13/01 rdp01.2	npi	nprp		01113		1,600	12/1/01				
d1	11/13/01 rdp01.2	npi	nprp		01112		1,600	12/1/01				
d1	11/13/01 rdp01.2	npi	nprp		01111		1,700	12/1/01				
d1	11/13/01 rdp01.2	npi	nprp		01110		1,500	12/1/01				
d1	11/13/01 rdp01.2	npi	nprp		01109		1,300	12/1/01				
d1	11/13/01 rdp01.2	npi	nprp		01108		1,600	12/1/01				
d1	11/13/01 rdp01.2	npi	nprp		01107		1,600	12/1/01				
d1	11/13/01 rdp01.2	npi	nprp		01106		1,700	12/1/01				
d1	11/13/01 rdp01.2	npi	nprp		01105		1,500	12/1/01				
d1	11/13/01 rdp01.2	npi	nprp		01104		1,500	12/1/01				
d1	11/13/01 rdp01.2	npi	nprp		01103		1,500	12/1/01				
d1	11/13/01 rdp01.2	npi	nprp		01102		1,500	12/1/01				
d1	11/13/01 rdp01.2	npi	nprp		01101		1,500	12/1/01				
d1	11/13/01 d2	npi	nprp		0031		11,600	12/1/01				
d1	11/1/99 d2	npi	nprp		94001		13,932	12/31/97				
d1	12/31/97 orig	npi	nprp		93302		6,800	2/1/96				
d1	12/1/98 d2	npi	nprp		93195		11,100	12/1/98				
d1	12/31/97 orig	npi	nprp		93193.1		7,900	2/1/96				
d1	12/1/98 d2	npi	nprp		93193		11,100	12/1/98				
d1	12/31/97 orig	npi	nprp		93158		2,400	2/1/96				
d1	12/31/97 orig	npi	nprp		93157		2,000	2/1/96				
d1	12/31/97 orig	npi	nprp		93154		2,400	2/1/96				
d1	12/31/97 orig	npi	nprp		93153		2,500	2/1/96				
d1	12/31/97 orig	npi	nprp		93152		2,400	2/1/96				
d1	12/31/97 orig	npi	nprp		93150		3,200	2/1/96				

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## NEUTRON PRODUCTS, INC.

manuf	model	serialno	slugno	curies	cideate	cicalcinv1	cicalcdate1	cicalcinv2	cicalcdate2	countinv	locate
unknown		736		446	12/1/93	135	12/31/02	122	10/2/03	1	
unknown		737		421	12/1/93	128	12/31/02	116	10/2/03	1	
unknown		738		440	12/1/93	133	12/31/02	121	10/2/03	1	
unknown		739		486	12/1/93	147	12/31/02	133	10/2/03	1	
unknown		740		434	12/1/93	131	12/31/02	119	10/2/03	1	
unknown		741		502	12/1/93	152	12/31/02	138	10/2/03	1	
unknown		742		417	12/1/93	126	12/31/02	114	10/2/03	1	
unknown		743		415	12/1/93	126	12/31/02	114	10/2/03	1	
unknown		744		325	12/1/93	98	12/31/02	89	10/2/03	1	
unknown		745		363	12/1/93	110	12/31/02	100	10/2/03	1	
unknown		760		341	12/1/93	103	12/31/02	94	10/2/03	1	
unknown		761		338	12/1/93	102	12/31/02	93	10/2/03	1	
unknown		762		348	12/1/93	105	12/31/02	95	10/2/03	1	
unknown		763		319	12/1/93	97	12/31/02	88	10/2/03	1	
unknown		764		382	12/1/93	116	12/31/02	105	10/2/03	1	
unknown		765		381	12/1/93	115	12/31/02	105	10/2/03	1	
unknown		766		493	12/1/93	149	12/31/02	135	10/2/03	1	
unknown		767		513	12/1/93	155	12/31/02	141	10/2/03	1	
unknown		768		628	12/1/93	190	12/31/02	172	10/2/03	1	
unknown		769		657	12/1/93	199	12/31/02	180	10/2/03	1	
unknown		770		572	12/1/93	173	12/31/02	157	10/2/03	1	
unknown		771		545	12/1/93	165	12/31/02	150	10/2/03	1	
unknown		772		620	12/1/93	188	12/31/02	170	10/2/03	1	
unknown		773		464	12/1/93	141	12/31/02	127	10/2/03	1	
unknown		775		474	12/1/93	144	12/31/02	130	10/2/03	1	
unknown		777		431	12/1/93	131	12/31/02	118	10/2/03	1	
unknown		778		827	12/1/93	251	12/31/02	227	10/2/03	1	
unknown		779		604	12/1/93	183	12/31/02	166	10/2/03	1	
unknown	CEA3612			3,000	10/11/83	240	12/31/02	217	10/2/03	1	
unknown	noid			1,090	7/1/95	406	12/31/02	368	10/2/03	1	
usnuc	W550			82	8/15/96	35	12/31/02	32	10/2/03	1	
	AMS2615			650	9/1/02	622	12/31/02	564	10/2/03	1	tx
	GET-20-205			634	1/1/99	375	12/31/02	339	10/2/03	1	
x	x	x	x	x	x	378,149	x	343,092	x	935	x

## NEUTRON PRODUCTS, INC.

manuf	model	serialno	slugno	curies	codate	cicalcinv1	cicalcdate1	cicalcinv2	cicalcdate2	countinv	locate
unknown		13165		1,980	7/1/95	738	12/31/02	669	10/2/03	1	
unknown		13166		1,930	7/1/95	720	12/31/02	652	10/2/03	1	
unknown		13173		2,240	7/1/95	835	12/31/02	756	10/2/03	1	
unknown		13174		1,880	7/1/95	701	12/31/02	635	10/2/03	1	
unknown		13177		1,850	7/1/95	690	12/31/02	625	10/2/03	1	
unknown		13995		1,260	7/1/95	470	12/31/02	425	10/2/03	1	
unknown		14006		1,260	7/1/95	470	12/31/02	425	10/2/03	1	
unknown		14010		1,300	7/1/95	485	12/31/02	439	10/2/03	1	
unknown		14064		1,260	7/1/95	470	12/31/02	425	10/2/03	1	
unknown		150		1,770	7/1/95	660	12/31/02	598	10/2/03	1	
unknown		152		1,120	7/1/94	366	12/31/02	332	10/2/03	1	
unknown		159		1,230	7/1/95	459	12/31/02	415	10/2/03	1	
unknown		16991		1,570	10/1/94	531	12/31/02	481	10/2/03	1	
unknown		17915		1,600	10/1/94	541	12/31/02	490	10/2/03	1	
unknown		17985		2,090	1/1/95	730	12/31/02	661	10/2/03	1	
unknown		21541.3		370	7/1/94	121	12/31/02	110	10/2/03	1	
unknown		22056		1,420	10/1/94	480	12/31/02	435	10/2/03	1	
unknown		24258.2		1,350	7/1/94	441	12/31/02	400	10/2/03	1	
unknown		251		1,000	7/1/95	373	12/31/02	338	10/2/03	1	
unknown		26053		4,480	10/1/94	1,514	12/31/02	1,371	10/2/03	1	
unknown		383.2		160	7/1/94	52	12/31/02	47	10/2/03	1	
unknown		394		1,140	7/1/95	425	12/31/02	385	10/2/03	1	
unknown		555		1,020	7/1/95	380	12/31/02	344	10/2/03	1	
unknown		556		1,050	7/1/95	392	12/31/02	355	10/2/03	1	
unknown		631		1,460	7/1/94	477	12/31/02	432	10/2/03	1	
unknown		715		501	12/1/93	152	12/31/02	137	10/2/03	1	
unknown		717		561	12/1/93	170	12/31/02	154	10/2/03	1	
unknown		718		568	12/1/93	172	12/31/02	156	10/2/03	1	
unknown		720		520	12/1/93	158	12/31/02	143	10/2/03	1	
unknown		721		511	12/1/93	155	12/31/02	140	10/2/03	1	
unknown		722		509	12/1/93	154	12/31/02	140	10/2/03	1	
unknown		723		541	12/1/93	164	12/31/02	148	10/2/03	1	
unknown		727		436	12/1/93	132	12/31/02	120	10/2/03	1	
unknown		728		531	12/1/93	161	12/31/02	146	10/2/03	1	
unknown		729		542	12/1/93	164	12/31/02	149	10/2/03	1	
unknown		730		526	12/1/93	159	12/31/02	144	10/2/03	1	
unknown		731		561	12/1/93	170	12/31/02	154	10/2/03	1	
unknown		732		503	12/1/93	152	12/31/02	138	10/2/03	1	
unknown		733		424	12/1/93	128	12/31/02	116	10/2/03	1	
unknown		734		409	12/1/93	124	12/31/02	112	10/2/03	1	
unknown		735		507	12/1/93	154	12/31/02	139	10/2/03	1	

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## NEUTRON PRODUCTS, INC.

manuf	model	serialno	slugno	curies	cideate	cicalcinv1	cicalcdat1	cicalcinv2	cicalcdat2	countinv	locate
thertronics		S3686		7,060	11/5/84	649	12/31/02	588	10/2/03	1	
thertronics		S3728		877	1/1/96	349	12/31/02	316	10/2/03	1	
thertronics		S3742		1	1/1/60	0	12/31/02	0	10/2/03	1	
thertronics		S3752		1,708	1/1/96	681	12/31/02	616	10/2/03	1	
thertronics		S3777		1,433	1/1/96	571	12/31/02	517	10/2/03	1	
thertronics		S3793		1,301	6/1/97	624	12/31/02	565	10/2/03	1	
thertronics		S3803		1,571	6/27/89	266	12/31/02	241	10/2/03	1	
thertronics		S3882		2,776	10/11/96	1,225	12/31/02	1,109	10/2/03	1	
thertronics		S3889		3,000	8/18/84	268	12/31/02	243	10/2/03	1	
thertronics		S3949		1,550	1/1/96	618	12/31/02	559	10/2/03	1	
thertronics		S3998		1	1/1/60	0	12/31/02	0	10/2/03	1	
thertronics		S4001		1	1/1/60	0	12/31/02	0	10/2/03	1	
thertronics		S4042		5,350	9/25/87	719	12/31/02	651	10/2/03	1	
thertronics		S4076		1,915	1/1/96	763	12/31/02	691	10/2/03	1	
thertronics		S4108		1,816	1/1/96	724	12/31/02	655	10/2/03	1	
thertronics		S4181		4,850	10/6/88	746	12/31/02	676	10/2/03	1	
thertronics		S422		1,330	10/15/67	13	12/31/02	12	10/2/03	1	
thertronics		S4277		2,674	12/30/95	1,065	12/31/02	964	10/2/03	1	
thertronics		S4294		1,700	10/5/97	854	12/31/02	773	10/2/03	1	
thertronics		S4302		2,850	11/3/96	1,268	12/31/02	1,148	10/2/03	1	
thertronics		S4339		2,903	6/1/97	1,393	12/31/02	1,262	10/2/03	1	
thertronics		S4416		7,457	1/1/91	1,540	12/31/02	2,057	10/17/00	1	
thertronics		S4424		4,293	1/1/96	1,711	12/31/02	1,549	10/2/03	1	
thertronics		S4506		1	1/1/60	0	12/31/02	0	10/2/03	1	
thertronics		S4636		4,479	7/1/97	2,173	12/31/02	1,968	10/2/03	1	
thertronics		S4643		3,350	5/31/97	1,607	12/31/02	1,455	10/2/03	1	
thertronics		S635		362	10/1/78	15	12/31/02	14	10/2/03	1	
thertronics		S675		1,340	12/15/69	17	12/31/02	16	10/2/03	1	
thertronics		S762		790	4/26/75	21	12/31/02	19	10/2/03	1	
thertronics		S80		1,100	12/29/73	24	12/31/02	22	10/2/03	1	
thertronics		S868		1,364	2/1/74	30	12/31/02	28	10/2/03	1	
thertronics		S890		1,799	4/15/65	13	12/31/02	11	10/2/03	1	
thertronics		S894		690	12/15/76	22	12/31/02	20	10/2/03	1	
thertronics		S925		1,720	11/15/68	19	12/31/02	18	10/2/03	1	
thertronics		S932		556	11/3/74	14	12/31/02	12	10/2/03	1	
thertronics		S944		1	1/1/60	0	12/31/02	0	10/2/03	1	
thertronics		S969		1	1/1/60	0	12/31/02	0	10/2/03	1	
unknown	?	?		1,160	1/1/60	4	12/31/02	4	10/2/03	1	
unknown	CIS	3244		915	8/31/97	454	12/31/02	411	10/2/03	1	
unknown		12715.2		1,150	1/1/95	402	12/31/02	364	10/2/03	1	
unknown		13032.2		845	3/1/93	232	12/31/02	210	10/2/03	1	

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## NEUTRON PRODUCTS, INC.

manuf	model	serialno	slugno	curies	cideate	cicalcinv1	cicalcdtate1	cicalcinv2	cicalcdtate2	countinv	locate
thertronics		S2650		4,032	3/31/77	136	12/31/02	124	10/2/03	1	
thertronics		S2667		2,370	9/9/83	187	12/31/02	169	10/2/03	1	
thertronics		S2668		5,788	6/7/77	201	12/31/02	182	10/2/03	1	
thertronics		S2670		8,214	6/8/77	285	12/31/02	258	10/2/03	1	
thertronics		S2684		5,691	6/27/77	199	12/31/02	180	10/2/03	1	
thertronics		S2697		270	12/21/85	29	12/31/02	26	10/2/03	1	
thertronics		S2713		5,660	10/15/77	206	12/31/02	186	10/2/03	1	
thertronics		S2769		3,245	2/15/78	123	12/31/02	112	10/2/03	1	
thertronics		S2777		2,219	4/5/84	189	12/31/02	171	10/2/03	1	
thertronics		S2795		4,604	4/21/78	179	12/31/02	162	10/2/03	1	
thertronics		S2832		5,600	7/6/78	224	12/31/02	203	10/2/03	1	
thertronics		S2876		3,565	10/10/78	147	12/31/02	134	10/2/03	1	
thertronics		S2877		2,110	9/30/83	168	12/31/02	152	10/2/03	1	
thertronics		S2889		5,979	9/14/79	279	12/31/02	253	10/2/03	1	
thertronics		S2919		7,484	1/16/79	321	12/31/02	290	10/2/03	1	
thertronics		S2945		2,116	2/12/86	230	12/31/02	208	10/2/03	1	
thertronics		S2981		5,437	6/20/79	246	12/31/02	223	10/2/03	1	
thertronics		S2990		1	1/1/60	0	12/31/02	0	10/2/03	1	
thertronics		S3035		402	4/19/97	190	12/31/02	172	10/2/03	1	
thertronics		S3040		6,487	11/19/79	310	12/31/02	281	10/2/03	1	
thertronics		S3068		985	1/1/96	392	12/31/02	355	10/2/03	1	
thertronics		S3070		3,367	2/5/80	166	12/31/02	150	10/2/03	1	
thertronics		S3102		3,917	4/10/80	197	12/31/02	179	10/2/03	1	
thertronics		S3123		2,678	8/2/85	271	12/31/02	246	10/2/03	1	
thertronics		S3124		3,700	9/1/84	332	12/31/02	301	10/2/03	1	
thertronics		S3133		4,955	8/1/80	260	12/31/02	235	10/2/03	1	
thertronics		S3134		1,432	1/1/96	571	12/31/02	517	10/2/03	1	
thertronics		S3157		4,181	10/27/80	226	12/31/02	205	10/2/03	1	
thertronics		S316		1	1/1/60	0	12/31/02	0	10/2/03	1	
thertronics		S3166		3,461	10/27/80	187	12/31/02	170	10/2/03	1	
thertronics		S3169		2,789	1/31/86	302	12/31/02	273	10/2/03	1	
thertronics		S3184		3,508	11/26/80	192	12/31/02	174	10/2/03	1	
thertronics		S3190		3,535	12/17/80	195	12/31/02	177	10/2/03	1	
thertronics		S3250		4,144	4/24/81	239	12/31/02	217	10/2/03	1	
thertronics		S3301		2,534	11/2/81	157	12/31/02	142	10/2/03	1	
thertronics		S3304		1,085	1/1/96	432	12/31/02	391	10/2/03	1	
thertronics		S3326		1	1/1/60	0	12/31/02	0	10/2/03	1	
thertronics		S3354		2,330	9/13/85	240	12/31/02	217	10/2/03	1	
thertronics		S3389		1,700	4/2/87	214	12/31/02	194	10/2/03	1	
thertronics		S3409		3,332	9/9/82	231	12/31/02	209	10/2/03	1	
thertronics		S3426		1,853	1/1/96	738	12/31/02	669	10/2/03	1	

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manuf	model	serialno	slugno	curies	codate	cicalcinv1	cicalcdate1	cicalcinv2	cicalcdate2	countinv	locate
thertronics		S1861		3,821	5/14/72	68	12/31/02	62	10/2/03	1	
thertronics		S1883		4,175	6/15/72	75	12/31/02	68	10/2/03	1	
thertronics		S1935		7,792	9/15/72	145	12/31/02	131	10/2/03	1	
thertronics		S1946		2,386	4/15/80	120	12/31/02	109	10/2/03	1	
thertronics		S1969		4,693	1/8/73	91	12/31/02	83	10/2/03	1	
thertronics		S2003		2,740	5/17/79	123	12/31/02	111	10/2/03	1	
thertronics		S2019		1,787	1/18/80	87	12/31/02	79	10/2/03	1	
thertronics		S2022		2,475	7/1/78	99	12/31/02	89	10/2/03	1	
thertronics		S2052		6,138	7/11/73	127	12/31/02	115	10/2/03	1	
thertronics		S2069		5,392	8/20/73	113	12/31/02	103	10/2/03	1	
thertronics		S2071		2,653	8/9/73	56	12/31/02	50	10/2/03	1	
thertronics		S2086		4,606	12/3/73	101	12/31/02	91	10/2/03	1	
thertronics		S2093		5,860	12/3/73	128	12/31/02	116	10/2/03	1	
thertronics		S2107		8,996	12/28/73	198	12/31/02	180	10/2/03	1	
thertronics		S2127		1	1/1/60	0	12/31/02	0	10/2/03	1	
thertronics		S2152		4,306	12/13/79	208	12/31/02	188	10/2/03	1	
thertronics		S2181		5,445	4/15/74	125	12/31/02	113	10/2/03	1	
thertronics		S2183		6,573	4/22/74	151	12/31/02	137	10/2/03	1	
thertronics		S2193		2,420	8/10/79	112	12/31/02	101	10/2/03	1	
thertronics		S2216		2,288	5/7/74	53	12/31/02	48	10/2/03	1	
thertronics		S2220		5,478	6/12/74	128	12/31/02	116	10/2/03	1	
thertronics		S2272		5,918	9/25/74	144	12/31/02	130	10/2/03	1	
thertronics		S2287		2,110	9/30/83	168	12/31/02	152	10/2/03	1	
thertronics		S2289		3,200	12/1/79	154	12/31/02	139	10/2/03	1	
thertronics		S2297		6,252	10/23/74	154	12/31/02	139	10/2/03	1	
thertronics		S2338		1	1/1/60	0	12/31/02	0	10/2/03	1	
thertronics		S2370		1	1/1/60	0	12/31/02	0	10/2/03	1	
thertronics		S2386		7,678	6/16/75	205	12/31/02	186	10/2/03	1	
thertronics		S2388		1,516	7/15/75	41	12/31/02	37	10/2/03	1	
thertronics		S2397		1	1/1/60	0	12/31/02	0	10/2/03	1	
thertronics		S2398		1,591	1/1/96	634	12/31/02	574	10/2/03	1	
thertronics		S2456		1,509	1/1/96	601	12/31/02	544	10/2/03	1	
thertronics		S2477		5,766	2/20/76	169	12/31/02	153	10/2/03	1	
thertronics		S2512		5,889	4/2/76	175	12/31/02	158	10/2/03	1	
thertronics		S2515		3,978	11/15/81	247	12/31/02	224	10/2/03	1	
thertronics		S2528		5,740	6/8/76	175	12/31/02	158	10/2/03	1	
thertronics		S2553		4,440	7/5/76	136	12/31/02	123	10/2/03	1	
thertronics		S2590		2,359	10/1/76	75	12/31/02	68	10/2/03	1	
thertronics		S2594		8,000	10/1/76	254	12/31/02	230	10/2/03	1	
thertronics		S2603		5,871	11/18/76	189	12/31/02	171	10/2/03	1	
thertronics		S2647		3,200	8/19/82	220	12/31/02	199	10/2/03	1	

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## NEUTRON PRODUCTS, INC.

manuf	model	serialno	slugno	curies	cidate	cicalcinv1	cicalcdat1	cicalcinv2	cicalcdat2	countinv	locate
theratronics	rp	768		700	12/1/93	212	12/31/02	192	10/2/03	1	
theratronics	rp	769		650	12/1/93	197	12/31/02	178	10/2/03	1	
theratronics	rp	770		590	12/1/93	179	12/31/02	162	10/2/03	1	
theratronics	rp	771		590	12/1/93	179	12/31/02	162	10/2/03	1	
theratronics	rp	77106		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	772		650	12/1/93	197	12/31/02	178	10/2/03	1	
theratronics	rp	77203		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	77253		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	77261		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	773		430	12/1/93	130	12/31/02	118	10/2/03	1	
theratronics	rp	775		480	12/1/93	145	12/31/02	132	10/2/03	1	
theratronics	rp	777		430	12/1/93	130	12/31/02	118	10/2/03	1	
theratronics	rp	778		430	12/1/93	130	12/31/02	118	10/2/03	1	
theratronics	rp	779		650	12/1/93	197	12/31/02	178	10/2/03	1	
theratronics	rp	NO ID		1,090	7/1/95	406	12/31/02	368	10/2/03	1	
theratronics		S1009		790	9/15/75	22	12/31/02	20	10/2/03	1	
theratronics		S1110		1,583	10/16/66	14	12/31/02	12	10/2/03	1	
theratronics		S1111		1,200	3/25/73	24	12/31/02	22	10/2/03	1	
theratronics		S1154		2,550	7/15/72	46	12/31/02	42	10/2/03	1	
theratronics		S1181		1,805	10/2/67	18	12/31/02	16	10/2/03	1	
theratronics		S123		2,901	12/15/74	73	12/31/02	66	10/2/03	1	
theratronics		S1392		1,936	7/7/76	60	12/31/02	54	10/2/03	1	
theratronics		S1424		1,060	1/1/76	30	12/31/02	28	10/2/03	1	
theratronics		S1447		2,694	5/1/69	32	12/31/02	29	10/2/03	1	
theratronics		S1454		1,200	6/22/73	25	12/31/02	22	10/2/03	1	
theratronics		S1462		3,085	8/1/77	109	12/31/02	99	10/2/03	1	
theratronics		S1468		1,457	2/1/77	48	12/31/02	44	10/2/03	1	
theratronics		S1472		949	6/26/75	25	12/31/02	23	10/2/03	1	
theratronics		S1530		1,386	7/26/74	33	12/31/02	30	10/2/03	1	
theratronics		S1536		694	11/10/75	20	12/31/02	18	10/2/03	1	
theratronics		S1544		2,928	8/1/76	91	12/31/02	82	10/2/03	1	
theratronics		S1579		1,018	2/5/70	13	12/31/02	12	10/2/03	1	
theratronics		S1714		2,421	3/15/71	37	12/31/02	34	10/2/03	1	
theratronics		S1724		5,570	3/1/71	85	12/31/02	77	10/2/03	1	
theratronics		S1748		1,247	9/6/75	34	12/31/02	31	10/2/03	1	
theratronics		S1769		3,641	10/15/75	102	12/31/02	92	10/2/03	1	
theratronics		S1778		1,600	8/3/74	38	12/31/02	35	10/2/03	1	
theratronics		S1802		1,342	5/1/70	18	12/31/02	17	10/2/03	1	
theratronics		S1812		1,257	12/26/77	47	12/31/02	42	10/2/03	1	
theratronics		S1823		2,437	6/16/72	44	12/31/02	40	10/2/03	1	
theratronics		S1846		8,624	2/10/72	149	12/31/02	134	10/2/03	1	

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## NEUTRON PRODUCTS, INC.

manuf	model	serialno	slugno	curies	cideate	cicalcinv1	cicalcdat1	cicalcinv2	cicalcdat2	countinv	locate
thertronics	rp	392		1,300	10/1/94	439	12/31/02	398	10/2/03	1	
thertronics	rp	394		1,140	7/1/95	425	12/31/02	385	10/2/03	1	
thertronics	rp	471		1,050	7/1/95	392	12/31/02	355	10/2/03	1	
thertronics	rp	555		1,020	7/1/95	380	12/31/02	344	10/2/03	1	
thertronics	rp	556		1,050	7/1/95	392	12/31/02	355	10/2/03	1	
thertronics	rp	631		1,460	7/1/94	477	12/31/02	432	10/2/03	1	
thertronics	rp	633		1,380	10/1/94	466	12/31/02	422	10/2/03	1	
thertronics	rp	715		480	12/1/93	145	12/31/02	132	10/2/03	1	
thertronics	rp	717		480	12/1/93	145	12/31/02	132	10/2/03	1	
thertronics	rp	718		540	12/1/93	164	12/31/02	148	10/2/03	1	
thertronics	rp	720		480	12/1/93	145	12/31/02	132	10/2/03	1	
thertronics	rp	721		480	12/1/93	145	12/31/02	132	10/2/03	1	
thertronics	rp	722		540	12/1/93	164	12/31/02	148	10/2/03	1	
thertronics	rp	723		590	12/1/93	179	12/31/02	162	10/2/03	1	
thertronics	rp	727		380	12/1/93	115	12/31/02	104	10/2/03	1	
thertronics	rp	728		540	12/1/93	164	12/31/02	148	10/2/03	1	
thertronics	rp	729		540	12/1/93	164	12/31/02	148	10/2/03	1	
thertronics	rp	730		480	12/1/93	145	12/31/02	132	10/2/03	1	
thertronics	rp	731		540	12/1/93	164	12/31/02	148	10/2/03	1	
thertronics	rp	732		430	12/1/93	130	12/31/02	118	10/2/03	1	
thertronics	rp	733		430	12/1/93	130	12/31/02	118	10/2/03	1	
thertronics	rp	734		380	12/1/93	115	12/31/02	104	10/2/03	1	
thertronics	rp	735		480	12/1/93	145	12/31/02	132	10/2/03	1	
thertronics	rp	736		480	12/1/93	145	12/31/02	132	10/2/03	1	
thertronics	rp	737		380	12/1/93	115	12/31/02	104	10/2/03	1	
thertronics	rp	738		380	12/1/93	115	12/31/02	104	10/2/03	1	
thertronics	rp	739		480	12/1/93	145	12/31/02	132	10/2/03	1	
thertronics	rp	740		380	12/1/93	115	12/31/02	104	10/2/03	1	
thertronics	rp	741		480	12/1/93	145	12/31/02	132	10/2/03	1	
thertronics	rp	742		260	12/1/93	79	12/31/02	71	10/2/03	1	
thertronics	rp	743		430	12/1/93	130	12/31/02	118	10/2/03	1	
thertronics	rp	744		270	12/1/93	82	12/31/02	74	10/2/03	1	
thertronics	rp	745		320	12/1/93	97	12/31/02	88	10/2/03	1	
thertronics	rp	760		270	12/1/93	82	12/31/02	74	10/2/03	1	
thertronics	rp	762		270	12/1/93	82	12/31/02	74	10/2/03	1	
thertronics	rp	763		270	12/1/93	82	12/31/02	74	10/2/03	1	
thertronics	rp	764		320	12/1/93	97	12/31/02	88	10/2/03	1	
thertronics	rp	765		380	12/1/93	115	12/31/02	104	10/2/03	1	
thertronics	rp	767		480	12/1/93	145	12/31/02	132	10/2/03	1	
thertronics	rp	76761		380	12/1/93	115	12/31/02	104	10/2/03	1	
thertronics	rp	76766		540	12/1/93	164	12/31/02	148	10/2/03	1	

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## NEUTRON PRODUCTS, INC.

manuf	model	serialno	slugno	curies	cideate	cicalcinv1	cicalcdate1	cicalcinv2	cicalcdate2	countinv	locate
thertronics	rp	267		1	5/1/96	0	12/31/02	0	10/2/03	1	
thertronics	rp	268		1	5/1/96	0	12/31/02	0	10/2/03	1	
thertronics	rp	273		1	5/1/96	0	12/31/02	0	10/2/03	1	
thertronics	rp	275		1	5/1/96	0	12/31/02	0	10/2/03	1	
thertronics	rp	276		1	5/1/96	0	12/31/02	0	10/2/03	1	
thertronics	rp	277		1	5/1/96	0	12/31/02	0	10/2/03	1	
thertronics	rp	285		1	5/1/96	0	12/31/02	0	10/2/03	1	
thertronics	rp	286		1	5/1/96	0	12/31/02	0	10/2/03	1	
thertronics	rp	290		1	5/1/96	0	12/31/02	0	10/2/03	1	
thertronics	rp	291		1	5/1/96	0	12/31/02	0	10/2/03	1	
thertronics	rp	293		1	5/1/96	0	12/31/02	0	10/2/03	1	
thertronics	rp	297		1	5/1/96	0	12/31/02	0	10/2/03	1	
thertronics	rp	302		1	5/1/96	0	12/31/02	0	10/2/03	1	
thertronics	rp	304		1	5/1/96	0	12/31/02	0	10/2/03	1	
thertronics	rp	305		1	5/1/96	0	12/31/02	0	10/2/03	1	
thertronics	rp	306		1	5/1/96	0	12/31/02	0	10/2/03	1	
thertronics	rp	309		1	5/1/96	0	12/31/02	0	10/2/03	1	
thertronics	rp	310		1	5/1/96	0	12/31/02	0	10/2/03	1	
thertronics	rp	311		1	5/1/96	0	12/31/02	0	10/2/03	1	
thertronics	rp	312		1	5/1/96	0	12/31/02	0	10/2/03	1	
thertronics	rp	314		1	5/1/96	0	12/31/02	0	10/2/03	1	
thertronics	rp	315		1	5/1/96	0	12/31/02	0	10/2/03	1	
thertronics	rp	322		1	5/1/96	0	12/31/02	0	10/2/03	1	
thertronics	rp	33		3,840	7/1/95	1,432	12/31/02	1,297	10/2/03	1	
thertronics	rp	34		3,800	7/1/95	1,417	12/31/02	1,283	10/2/03	1	
thertronics	rp	35		3,700	7/1/95	1,380	12/31/02	1,249	10/2/03	1	
thertronics	rp	358		1,270	7/1/94	415	12/31/02	376	10/2/03	1	
thertronics	rp	359		1,330	7/1/94	435	12/31/02	394	10/2/03	1	
thertronics	rp	36		4,160	7/1/95	1,551	12/31/02	1,405	10/2/03	1	
thertronics	rp	360		1,260	7/1/94	412	12/31/02	373	10/2/03	1	
thertronics	rp	367		1,310	7/1/94	428	12/31/02	388	10/2/03	1	
thertronics	rp	368		1,260	10/1/94	426	12/31/02	386	10/2/03	1	
thertronics	rp	369		1,280	7/1/94	419	12/31/02	379	10/2/03	1	
thertronics	rp	371		1,300	7/1/94	425	12/31/02	385	10/2/03	1	
thertronics	rp	372		1,250	7/1/94	409	12/31/02	370	10/2/03	1	
thertronics	rp	373		1,270	7/1/94	415	12/31/02	376	10/2/03	1	
thertronics	rp	375		1,250	7/1/94	409	12/31/02	370	10/2/03	1	
thertronics	rp	382		1,300	10/1/94	439	12/31/02	398	10/2/03	1	
thertronics	rp	383		160	7/1/94	52	12/31/02	47	10/2/03	1	
thertronics	rp	386		1,300	10/1/94	439	12/31/02	398	10/2/03	1	
thertronics	rp	388		1,220	10/1/94	412	12/31/02	373	10/2/03	1	

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## NEUTRON PRODUCTS, INC.

manuf	model	serialno	slugno	curies	cdate	cicalcinv1	cicalcdt1	cicalcinv2	cicalcdt2	countinv	locate
theratronics	rp	186		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	187		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	194		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	195		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	198		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	199		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	205		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	207		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	210		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	212		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	213		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	214		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	21531		1,480	10/1/94	500	12/31/02	453	10/2/03	1	
theratronics	rp	21541		370	7/1/94	121	12/31/02	110	10/2/03	1	
theratronics	rp	217		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	218		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	22056		1,420	10/1/94	480	12/31/02	435	10/2/03	1	
theratronics	rp	22061		1,330	7/1/95	496	12/31/02	449	10/2/03	1	
theratronics	rp	22062		1,310	7/1/95	489	12/31/02	442	10/2/03	1	
theratronics	rp	22064		1,290	7/1/95	481	12/31/02	436	10/2/03	1	
theratronics	rp	222		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	223		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	224		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	227		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	228		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	230		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	235		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	237		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	238		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	240		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	241		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	24258		1,350	7/1/94	441	12/31/02	400	10/2/03	1	
theratronics	rp	243		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	247		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	251		1,000	7/1/95	373	12/31/02	338	10/2/03	1	
theratronics	rp	251		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	252		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	255		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	259		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	26053		4,480	10/1/94	1,514	12/31/02	1,371	10/2/03	1	
theratronics	rp	262		1	5/1/96	0	12/31/02	0	10/2/03	1	

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## NEUTRON PRODUCTS, INC.

manuf	model	serialno	slugno	curies	cideate	cicalcinv1	cicalcdate1	cicalcinv2	cicalcdate2	countinv	locate
thertronics	rp	141		1	5/1/96	0	12/31/02	0	10/2/03	1	
thertronics	rp	144		1	5/1/96	0	12/31/02	0	10/2/03	1	
thertronics	rp	148		1	5/1/96	0	12/31/02	0	10/2/03	1	
thertronics	rp	149		1	5/1/96	0	12/31/02	0	10/2/03	1	
thertronics	rp	150		1,770	7/1/95	660	12/31/02	598	10/2/03	1	
thertronics	rp	151		1	5/1/96	0	12/31/02	0	10/2/03	1	
thertronics	rp	152		1,120	7/1/94	366	12/31/02	332	10/2/03	1	
thertronics	rp	152		1,030	7/1/95	384	12/31/02	348	10/2/03	1	
thertronics	rp	152		1	5/1/96	0	12/31/02	0	10/2/03	1	
thertronics	rp	15220		1,090	10/1/94	368	12/31/02	334	10/2/03	1	
thertronics	rp	154		1	5/1/96	0	12/31/02	0	10/2/03	1	
thertronics	rp	156		1	5/1/96	0	12/31/02	0	10/2/03	1	
thertronics	rp	157		1,150	7/1/94	376	12/31/02	341	10/2/03	1	
thertronics	rp	157		1	5/1/96	0	12/31/02	0	10/2/03	1	
thertronics	rp	158		1	5/1/96	0	12/31/02	0	10/2/03	1	
thertronics	rp	159		1,230	7/1/95	459	12/31/02	415	10/2/03	1	
thertronics	rp	159		1	5/1/96	0	12/31/02	0	10/2/03	1	
thertronics	rp	161		3,870	7/1/95	1,443	12/31/02	1,307	10/2/03	1	
thertronics	rp	161		1	5/1/96	0	12/31/02	0	10/2/03	1	
thertronics	rp	162		3,840	7/1/95	1,432	12/31/02	1,297	10/2/03	1	
thertronics	rp	162		1	5/1/96	0	12/31/02	0	10/2/03	1	
thertronics	rp	163		4,130	7/1/95	1,540	12/31/02	1,395	10/2/03	1	
thertronics	rp	163		1	5/1/96	0	12/31/02	0	10/2/03	1	
thertronics	rp	164		4,180	7/1/95	1,559	12/31/02	1,412	10/2/03	1	
thertronics	rp	164		1	5/1/96	0	12/31/02	0	10/2/03	1	
thertronics	rp	165		3,930	7/1/95	1,466	12/31/02	1,327	10/2/03	1	
thertronics	rp	166		3,970	7/1/95	1,480	12/31/02	1,341	10/2/03	1	
thertronics	rp	167		1	5/1/96	0	12/31/02	0	10/2/03	1	
thertronics	rp	168		1	5/1/96	0	12/31/02	0	10/2/03	1	
thertronics	rp	169		1	5/1/96	0	12/31/02	0	10/2/03	1	
thertronics	rp	170		1	5/1/96	0	12/31/02	0	10/2/03	1	
thertronics	rp	172		1	5/1/96	0	12/31/02	0	10/2/03	1	
thertronics	rp	173		1	5/1/96	0	12/31/02	0	10/2/03	1	
thertronics	rp	174		1	5/1/96	0	12/31/02	0	10/2/03	1	
thertronics	rp	176		1	5/1/96	0	12/31/02	0	10/2/03	1	
thertronics	rp	177		1	5/1/96	0	12/31/02	0	10/2/03	1	
thertronics	rp	179		1	5/1/96	0	12/31/02	0	10/2/03	1	
thertronics	rp	17915		1,600	10/1/94	541	12/31/02	490	10/2/03	1	
thertronics	rp	17985		2,090	1/1/95	730	12/31/02	661	10/2/03	1	
thertronics	rp	180		1	5/1/96	0	12/31/02	0	10/2/03	1	
thertronics	rp	184		1	5/1/96	0	12/31/02	0	10/2/03	1	

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## NEUTRON PRODUCTS, INC.

manuf	model	serialno	slugno	curies	cideate	cicalcinv1	cicalcdate1	cicalcinv2	cicalcdate2	countinv	locate
theratronics	rp	10716		1,490	6/1/94	482	12/31/02	436	10/2/03	1	
theratronics	rp	109		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	118		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	120		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	123		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	12715		1,150	1/1/95	402	12/31/02	364	10/2/03	1	
theratronics	rp	12831		1,330	7/1/95	496	12/31/02	449	10/2/03	1	
theratronics	rp	129		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	130		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	13032		845	3/1/93	232	12/31/02	210	10/2/03	1	
theratronics	rp	13165		1,980	7/1/95	738	12/31/02	669	10/2/03	1	
theratronics	rp	13166		1,930	7/1/95	720	12/31/02	652	10/2/03	1	
theratronics	rp	13173		2,240	7/1/95	835	12/31/02	756	10/2/03	1	
theratronics	rp	13174		1,880	7/1/95	701	12/31/02	635	10/2/03	1	
theratronics	rp	13177		1,850	7/1/95	690	12/31/02	625	10/2/03	1	
theratronics	rp	132		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	134		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	137		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	139		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	13993		1,280	7/1/95	477	12/31/02	432	10/2/03	1	
theratronics	rp	13995		1,260	7/1/95	470	12/31/02	425	10/2/03	1	
theratronics	rp	13996		1,280	7/1/95	477	12/31/02	432	10/2/03	1	
theratronics	rp	140		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	14001		1,270	7/1/95	474	12/31/02	429	10/2/03	1	
theratronics	rp	14006		1,260	7/1/95	470	12/31/02	425	10/2/03	1	
theratronics	rp	14008		1,270	7/1/95	474	12/31/02	429	10/2/03	1	
theratronics	rp	14009		1,280	7/1/95	477	12/31/02	432	10/2/03	1	
theratronics	rp	14010		1,300	7/1/95	485	12/31/02	439	10/2/03	1	
theratronics	rp	14011		1,270	7/1/95	474	12/31/02	429	10/2/03	1	
theratronics	rp	14013		1,310	7/1/95	489	12/31/02	442	10/2/03	1	
theratronics	rp	14017		1,270	7/1/95	474	12/31/02	429	10/2/03	1	
theratronics	rp	14018		1,270	7/1/95	474	12/31/02	429	10/2/03	1	
theratronics	rp	14023		1,270	7/1/95	474	12/31/02	429	10/2/03	1	
theratronics	rp	14041		1,250	7/1/95	466	12/31/02	422	10/2/03	1	
theratronics	rp	14053		1,320	7/1/95	492	12/31/02	446	10/2/03	1	
theratronics	rp	14057		1,300	7/1/95	485	12/31/02	439	10/2/03	1	
theratronics	rp	14058		1,270	7/1/95	474	12/31/02	429	10/2/03	1	
theratronics	rp	14064		1,260	7/1/95	470	12/31/02	425	10/2/03	1	
theratronics	rp	14069		1,270	7/1/95	474	12/31/02	429	10/2/03	1	
theratronics	rp	14073		1,270	7/1/95	474	12/31/02	429	10/2/03	1	
theratronics	rp	14074		1,270	7/1/95	474	12/31/02	429	10/2/03	1	

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## NEUTRON PRODUCTS, INC.

manuf	model	serialno	slugno	curies	codate	cicalcinv1	cicalcdate1	cicalcinv2	cicalcdate2	countinv	locate
npi	nptt	T1379	951562	5,501	6/1/95	2,029	12/31/02	1,838	10/2/03	1	tx
npi	nptt	T1379	901286	3,520	9/1/90	696	12/31/02	630	10/2/03	1	tx
npi	nptt	T1226	921466	3,350	3/1/92	806	12/31/02	730	10/2/03	1	tx
npi	nptt	T1226	77361	1,130	1/1/89	179	12/31/02	162	10/2/03	1	tx
npi	nptt	T1491	981726	5,400	6/1/98	2,956	12/31/02	2,677	10/2/03	1	tx
npi	nptt	T1491	83869	1,680	1/1/89	267	12/31/02	242	10/2/03	1	tx
npi	nptt	T996	881211	4,290	1/1/89	681	12/31/02	617	10/2/03	1	tx
npi	nptt	T996	84908	1,530	1/1/89	243	12/31/02	220	10/2/03	1	
npi	nptt	T245	77362	2,350	1/1/89	373	12/31/02	338	10/2/03	1	
npi	nptt	T1238	921472	4,400	3/1/92	1,059	12/31/02	959	10/2/03	1	
npi	nptt	T1238	871109	2,850	1/1/89	452	12/31/02	410	10/2/03	1	
npi	nptt	T1271	931516	4,710	9/1/93	1,381	12/31/02	1,251	10/2/03	1	tx
npi	nptt	T1271	861027	3,050	1/1/89	484	12/31/02	438	10/2/03	1	tx
npi	nptt	T1293	931505	5,740	9/1/93	1,683	12/31/02	1,524	10/2/03	1	tx
npi	nptt	T1293	861068	920	1/1/89	146	12/31/02	132	10/2/03	1	tx
npi	rodlets	01-72cut		7,433	12/1/01	6,448	12/31/02	5,839	10/2/03	1	tx
npi	srw	T762	8W(SR-1-L)	1	1/1/60	0	12/31/02	0	10/2/03	1	
Picker	C137	PX-85		2,000	9/23/64	13	12/31/02	12	10/2/03	1	
picker		PX2145		99	5/1/97	47	12/31/02	43	10/2/03	1	
sieman	CAESA	?		1,200	1/1/97	545	12/31/02	494	10/2/03	1	
thera	thera	S3925		813	5/1/01	653	12/31/02	591	10/2/03	1	
thera	thera	S4049		930	5/1/01	747	12/31/02	676	10/2/03	1	
thera	thera	S4389		1,547	6/1/01	1,256	12/31/02	1,138	10/2/03	1	
thera	thera	S4926		2,780	8/8/01	2,314	12/31/02	2,095	10/2/03	1	
thera	thera	S4987		4,560	9/15/01	3,847	12/31/02	3,484	10/2/03	1	
thera	thera	S2801		430	2/21/02	384	12/31/02	348	10/2/03	1	tx
thera	thera	S4040		980	3/19/02	884	12/31/02	800	10/2/03	1	tx
thera	thera	S4738		2,480	4/1/02	2,247	12/31/02	2,035	10/2/03	1	tx
thera	thera	S4392		1,340	4/4/02	1,215	12/31/02	1,101	10/2/03	1	tx
thera	thera	S5223		590	7/9/02	554	12/31/02	502	10/2/03	1	tx
thera	thera	S4117		5,778	6/8/88	851	12/31/02	771	10/2/03	1	tx
thera	thera	S4428		1,200	8/4/98	672	12/31/02	609	10/2/03	1	
thera	thera	S4033		1,200	3/25/99	731	12/31/02	662	10/2/03	1	
theratronics	?	?		535	6/10/98	294	12/31/02	266	10/2/03	1	
theratronics	C146	S4239		5,171	3/29/89	847	12/31/02	767	10/2/03	1	
theratronics	c146	S4311		11,810	11/3/99	7,795	12/31/02	7,059	10/2/03	1	
theratronics	C146	S4428		7,273	2/8/91	1,522	12/31/02	1,379	10/2/03	1	
theratronics	C146	S4622		3,330	3/1/98	1,763	12/31/02	1,597	10/2/03	1	
theratronics	rp	103		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	104		1	5/1/96	0	12/31/02	0	10/2/03	1	
theratronics	rp	107		1	5/1/96	0	12/31/02	0	10/2/03	1	

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manuf	model	serialno	slugno	curies	cideate	cicalcinv1	cicalcdate1	cicalcinv2	cicalcdate2	countinv	locate
npi	nptt		851005	837	12/1/95	330	12/31/02	299	10/2/03	1	
npi	nptt		861018	1,781	12/1/95	702	12/31/02	635	10/2/03	1	
npi	nptt		861032	1,109	12/1/95	437	12/31/02	396	10/2/03	1	
npi	nptt		861067	248	12/1/95	98	12/31/02	88	10/2/03	1	
npi	nptt		881162	2,059	12/1/95	811	12/31/02	735	10/2/03	1	
npi	nptt		881197	1,881	12/1/95	741	12/31/02	671	10/2/03	1	
npi	nptt		881223	988	12/1/95	389	12/31/02	353	10/2/03	1	
npi	nptt		891236	2,863	12/1/95	1,128	12/31/02	1,022	10/2/03	1	
npi	nptt		891239	2,793	12/1/95	1,101	12/31/02	997	10/2/03	1	
npi	nptt		901281	3,249	12/1/95	1,280	12/31/02	1,159	10/2/03	1	
npi	nptt		901311	1,837	12/1/95	724	12/31/02	655	10/2/03	1	
npi	nptt		911337	1,890	7/1/91	417	12/31/02	377	10/2/03	1	
npi	nptt		911384	3,009	12/1/95	1,186	12/31/02	1,074	10/2/03	1	
npi	nptt		921404	2,260	12/1/95	891	12/31/02	806	10/2/03	1	
npi	nptt		931513	6,110	9/1/93	1,791	12/31/02	1,622	10/2/03	1	
npi	nptt		931546	2,600	9/1/93	762	12/31/02	690	10/2/03	1	
npi	nptt		951598	4,768	6/1/95	1,759	12/31/02	1,593	10/2/03	1	
npi	nptt		951607	1,985	6/1/95	732	12/31/02	663	10/2/03	1	
npi	nptt		961632	4,190	1/1/96	1,670	12/31/02	1,512	10/2/03	1	
npi	nptt		981696	5,250	6/1/98	2,874	12/31/02	2,602	10/2/03	1	
npi	nptt		981743	3,900	6/1/98	2,135	12/31/02	1,933	10/2/03	1	
npi	nptt		981744	3,850	6/1/98	2,107	12/31/02	1,908	10/2/03	1	
npi	nptt	T1194	921439	4,460	3/1/92	1,073	12/31/02	972	10/2/03	1	tx
npi	nptt	T1194	85977	1,840	1/1/89	292	12/31/02	265	10/2/03	1	tx
npi	nptt	T1001	881194	4,820	1/1/89	765	12/31/02	693	10/2/03	1	tx
npi	nptt	T1001	82776	2,120	1/1/89	337	12/31/02	305	10/2/03	1	tx
npi	nptt	T1399	901326	4,360	9/1/90	862	12/31/02	780	10/2/03	1	tx
npi	nptt	T1399	891252	4,230	9/1/90	836	12/31/02	757	10/2/03	1	tx
npi	nptt	T1115	911373	5,980	7/1/91	1,318	12/31/02	1,193	10/2/03	1	tx
npi	nptt	T1244	921473	4,530	3/1/92	1,090	12/31/02	987	10/2/03	1	tx
npi	nptt	T1244	871119	2,910	1/1/89	462	12/31/02	418	10/2/03	1	tx
npi	nptt	T1401	931508	5,610	9/1/93	1,645	12/31/02	1,490	10/2/03	1	tx
npi	nptt	T1401	85991	3,400	1/1/89	540	12/31/02	489	10/2/03	1	tx
npi	nptt	T1469	981746	4,410	6/1/98	2,414	12/31/02	2,186	10/2/03	1	tx
npi	nptt	T1469	861036	3,530	1/1/89	560	12/31/02	508	10/2/03	1	tx
npi	nptt	T1489	921401	5,300	3/1/92	1,275	12/31/02	1,155	10/2/03	1	tx
npi	nptt	T1489	921444	3,610	3/1/92	869	12/31/02	787	10/2/03	1	tx
npi	nptt	T896	871121	2,690	1/1/89	427	12/31/02	387	10/2/03	1	tx
npi	nptt	T896	79552	1,190	1/1/89	189	12/31/02	171	10/2/03	1	tx
npi	nptt	T1451	961634	4,380	1/1/96	1,745	12/31/02	1,580	10/2/03	1	tx
npi	nptt	T1451	951558	3,900	6/1/95	1,439	12/31/02	1,303	10/2/03	1	tx

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## NEUTRON PRODUCTS, INC.

manuf	model	serialno	slugno	curies	codate	cicalcinv1	cicalcdate1	cicalcinv2	cicalcdate2	countinv	locate
npi	nptt		72012	60	12/1/95	24	12/31/02	21	10/2/03	1	
npi	nptt		72027	97	12/1/95	38	12/31/02	35	10/2/03	1	
npi	nptt		73025	110	12/1/95	43	12/31/02	39	10/2/03	1	
npi	nptt		74041	107	12/1/95	42	12/31/02	38	10/2/03	1	
npi	nptt		74046	102	12/1/95	40	12/31/02	36	10/2/03	1	
npi	nptt		74048	99	12/1/95	39	12/31/02	35	10/2/03	1	
npi	nptt		74053	98	12/1/95	39	12/31/02	35	10/2/03	1	
npi	nptt		74055	89	12/1/95	35	12/31/02	32	10/2/03	1	
npi	nptt		74056	95	12/1/95	37	12/31/02	34	10/2/03	1	
npi	nptt		74062	95	12/1/95	37	12/31/02	34	10/2/03	1	
npi	nptt		74064	92	12/1/95	36	12/31/02	33	10/2/03	1	
npi	nptt		75141	104	12/1/95	41	12/31/02	37	10/2/03	1	
npi	nptt		75173	90	12/1/95	35	12/31/02	32	10/2/03	1	
npi	nptt		76223	261	12/1/95	103	12/31/02	93	10/2/03	1	
npi	nptt		76224	244	12/1/95	96	12/31/02	87	10/2/03	1	
npi	nptt		76230	98	12/1/95	39	12/31/02	35	10/2/03	1	
npi	nptt		77317	373	12/1/95	147	12/31/02	133	10/2/03	1	
npi	nptt		77345	73	12/1/95	29	12/31/02	26	10/2/03	1	
npi	nptt		77371	938	12/1/95	370	12/31/02	335	10/2/03	1	
npi	nptt		77372	930	12/1/95	366	12/31/02	332	10/2/03	1	
npi	nptt		77400	495	12/1/95	195	12/31/02	177	10/2/03	1	
npi	nptt		82744	1,620	12/1/95	638	12/31/02	578	10/2/03	1	
npi	nptt		82747	713	12/1/95	281	12/31/02	254	10/2/03	1	
npi	nptt		82749	708	12/1/95	279	12/31/02	253	10/2/03	1	
npi	nptt		82750	713	12/1/95	281	12/31/02	254	10/2/03	1	
npi	nptt		82751	729	12/1/95	287	12/31/02	260	10/2/03	1	
npi	nptt		82752	1,069	12/1/95	421	12/31/02	381	10/2/03	1	
npi	nptt		82753	1,076	12/1/95	424	12/31/02	384	10/2/03	1	
npi	nptt		82754	1,086	12/1/95	428	12/31/02	387	10/2/03	1	
npi	nptt		82757	1,079	12/1/95	425	12/31/02	385	10/2/03	1	
npi	nptt		82761	1,074	12/1/95	423	12/31/02	383	10/2/03	1	
npi	nptt		82763	1,073	12/1/95	423	12/31/02	383	10/2/03	1	
npi	nptt		82764	1,100	12/1/95	433	12/31/02	392	10/2/03	1	
npi	nptt		82766	1,071	12/1/95	422	12/31/02	382	10/2/03	1	
npi	nptt		82788	1,410	12/1/95	556	12/31/02	503	10/2/03	1	
npi	nptt		82827	446	12/1/95	176	12/31/02	159	10/2/03	1	
npi	nptt		83866	1	12/1/95	0	12/31/02	0	10/2/03	1	
npi	nptt		85969	775	12/1/95	305	12/31/02	277	10/2/03	1	
npi	nptt		85972	749	12/1/95	295	12/31/02	267	10/2/03	1	
npi	nptt		85988	688	12/1/95	271	12/31/02	245	10/2/03	1	
npi	nptt		85990	1,529	12/1/95	602	12/31/02	546	10/2/03	1	

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## NEUTRON PRODUCTS, INC.

manuf	model	serialno	slugno	curies	cideate	cicalcinv1	cicalcdate1	cicalcinv2	cicalcdate2	countinv	locate
npi	nptt	T1227	921457	4,810	3/1/92	1,157	12/31/02	1,048	10/2/03	1	
npi	nptt	T1232	871100	3,460	1/1/89	549	12/31/02	497	10/2/03	1	
npi	nptt	T1232	871100	3,460	1/1/89	549	12/31/02	497	10/2/03	1	
npi	nptt	T1232	921463	4,650	3/1/92	1,119	12/31/02	1,013	10/2/03	1	
npi	nptt	T1232	921463	4,650	3/1/92	1,119	12/31/02	1,013	10/2/03	1	
npi	nptt	T1236	881180	2,730	1/1/89	433	12/31/02	392	10/2/03	1	
npi	nptt	T1251	921415	5,870	3/1/92	1,412	12/31/02	1,279	10/2/03	1	
npi	nptt	T1251	921440	3,720	3/1/92	895	12/31/02	811	10/2/03	1	
npi	nptt	T1258	921431	5,450	3/1/92	1,311	12/31/02	1,188	10/2/03	1	
npi	nptt	T1259	85980	1,380	1/1/89	219	12/31/02	198	10/2/03	1	
npi	nptt	T1260	911346	4,270	7/1/91	941	12/31/02	852	10/2/03	1	
npi	nptt	T1273	931535	3,740	9/1/93	1,097	12/31/02	993	10/2/03	1	
npi	nptt	T1290	81694	1,330	1/1/89	211	12/31/02	191	10/2/03	1	
npi	nptt	T1296	891235	3,362	1/1/95	1,175	12/31/02	1,064	10/2/03	1	
npi	nptt	T1302	881165	4,720	1/1/89	749	12/31/02	679	10/2/03	1	
npi	nptt	T1302	931510	3,880	9/1/93	1,138	12/31/02	1,030	10/2/03	1	
npi	nptt	T1307	75154	480	1/1/89	76	12/31/02	69	10/2/03	1	
npi	nptt	T1311	931537	3,450	9/1/93	1,012	12/31/02	916	10/2/03	1	
npi	nptt	T1330	921414	7,541	1/1/95	2,635	12/31/02	2,386	10/2/03	1	
npi	nptt	T1336	911334	1,930	7/1/91	425	12/31/02	385	10/2/03	1	
npi	nptt	T1336	951559	3,604	6/1/95	1,330	12/31/02	1,204	10/2/03	1	
npi	nptt	T1346	891262	3,180	9/1/90	628	12/31/02	569	10/2/03	1	
npi	nptt	T1346	951580	3,822	6/1/95	1,410	12/31/02	1,277	10/2/03	1	
npi	nptt	T1349	951555	5,546	6/1/95	2,046	12/31/02	1,853	10/2/03	1	
npi	nptt	T1349	951606	2,205	6/1/95	813	12/31/02	737	10/2/03	1	
npi	nptt	T1368	951589	4,741	6/1/95	1,749	12/31/02	1,584	10/2/03	1	
npi	nptt	T1375	921405	3,510	3/1/92	845	12/31/02	765	10/2/03	1	
npi	nptt	T1398	85987	1,840	1/1/89	292	12/31/02	265	10/2/03	1	
npi	nptt	T1398	961664	3,520	1/1/96	1,403	12/31/02	1,270	10/2/03	1	
npi	nptt	T1432	951577	5,122	6/1/95	1,890	12/31/02	1,711	10/2/03	1	
npi	nptt	T1432	961663	3,680	1/1/96	1,466	12/31/02	1,328	10/2/03	1	
npi	nptt	T1456	72016	87	12/1/95	34	12/31/02	31	10/2/03	1	
npi	nptt	T1460	891260	3,930	9/1/90	777	12/31/02	703	10/2/03	1	
npi	nptt	T1460	981730	5,110	6/1/98	2,797	12/31/02	2,533	10/2/03	1	
npi	nptt	T432	6w	1	1/1/60	0	12/31/02	0	10/2/03	1	
npi	nptt	T748	79558	988	1/1/95	345	12/31/02	313	10/2/03	1	
npi	nptt	T848	861030	3,550	1/1/89	564	12/31/02	510	10/2/03	1	
npi	nptt	T848	84-6 6w	1	1/1/89	0	12/31/02	0	10/2/03	1	
npi	nptt	T934	881160	2,715	1/1/95	949	12/31/02	859	10/2/03	1	
npi	nptt		71007	90	12/1/95	35	12/31/02	32	10/2/03	1	
npi	nptt		71012	48	12/1/95	19	12/31/02	17	10/2/03	1	

## NEUTRON PRODUCTS, INC.

manuf	model	serialno	slugno	curies	cidate	cicalcinv1	cicalcdtate1	cicalcinv2	cicalcdtate2	countinv	locate
npi	nprp	91309	68	1,426	9/9/99	923	12/31/02	836	10/2/03	1	
npi	nprp	91310	69	1,479	9/9/99	957	12/31/02	867	10/2/03	1	
npi	nprp	91311	70	1,430	9/9/99	925	12/31/02	838	10/2/03	1	
npi	nprp	91519		9,070	10/1/91	2,066	12/31/02	1,871	10/2/03	1	
npi	nprp	92070		1,360	1/1/97	618	12/31/02	560	10/2/03	1	
npi	nprp	92071		1,360	1/1/97	618	12/31/02	560	10/2/03	1	
npi	nprp	92072		1,170	1/1/97	532	12/31/02	482	10/2/03	1	
npi	nprp	92073		1,020	1/1/97	464	12/31/02	420	10/2/03	1	
npi	nprp	92074		1,090	1/1/97	495	12/31/02	449	10/2/03	1	
npi	nprp	92075		1,020	1/1/97	464	12/31/02	420	10/2/03	1	
npi	nprp	92076		1,020	1/1/97	464	12/31/02	420	10/2/03	1	
npi	nprp	92077		1,060	1/1/97	482	12/31/02	436	10/2/03	1	
npi	nprp	92078		1,170	1/1/97	532	12/31/02	482	10/2/03	1	
npi	nprp	94965		8,600	9/1/94	2,876	12/31/02	2,604	10/2/03	1	
npi	nptt	?	881184	1,017	12/1/95	401	12/31/02	363	10/2/03	1	
npi	nptt	RT78		120	11/1/97	61	12/31/02	55	10/2/03	1	
npi	nptt	T1012	881151	5,640	1/1/89	895	12/31/02	811	10/2/03	1	
npi	nptt	T1012	881172	4,250	1/1/89	675	12/31/02	611	10/2/03	1	
npi	nptt	T1033	891258	3,800	9/1/90	751	12/31/02	680	10/2/03	1	
npi	nptt	T1033	891259	3,990	9/1/90	788	12/31/02	714	10/2/03	1	
npi	nptt	T1040	82801	860	1/1/89	137	12/31/02	124	10/2/03	1	
npi	nptt	T1053	901275	3,817	1/1/95	1,334	12/31/02	1,208	10/2/03	1	
npi	nptt	T1079	84933	2,010	1/1/89	319	12/31/02	289	10/2/03	1	
npi	nptt	T1079	901283	4,950	9/1/90	978	12/31/02	886	10/2/03	1	
npi	nptt	T1081	901291	4,810	9/1/90	951	12/31/02	861	10/2/03	1	
npi	nptt	T1081	5W	1	1/1/60	0	12/31/02	0	10/2/03	1	
npi	nptt	T1095	85986	1,260	1/1/89	200	12/31/02	181	10/2/03	1	
npi	nptt	T1095	901306	4,600	9/1/90	909	12/31/02	823	10/2/03	1	
npi	nptt	T1107	81677	1,540	1/1/89	245	12/31/02	221	10/2/03	1	
npi	nptt	T1111	901282	2,440	1/1/95	853	12/31/02	772	10/2/03	1	
npi	nptt	T1145	851001	2,680	1/1/89	425	12/31/02	385	10/2/03	1	
npi	nptt	T1145	911375	5,360	7/1/91	1,181	12/31/02	1,070	10/2/03	1	
npi	nptt	T1150	911356	2,020	7/1/91	445	12/31/02	403	10/2/03	1	
npi	nptt	T1150	911366	3,340	7/1/91	736	12/31/02	667	10/2/03	1	
npi	nptt	T1151	74063	100	1/1/95	35	12/31/02	32	10/2/03	1	
npi	nptt	T1175	84949	1,360	1/1/89	216	12/31/02	196	10/2/03	1	
npi	nptt	T1175	921474	4,460	3/1/92	1,073	12/31/02	972	10/2/03	1	
npi	nptt	T1210	871080	5,700	1/1/89	905	12/31/02	819	10/2/03	1	
npi	nptt	T1212	83842	2,100	1/1/89	333	12/31/02	302	10/2/03	1	
npi	nptt	T1212	921432	3,110	3/1/92	748	12/31/02	678	10/2/03	1	
npi	nptt	T1227	85970	2,020	1/1/89	321	12/31/02	290	10/2/03	1	

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manuf	model	serialno	slugno	curies	cideate	cicalcinv1	cicalcdtate1	cicalcinv2	cicalcdtate2	countinv	locate
npi	nprp	81067		1,180	10/1/97	592	12/31/02	536	10/2/03	1	
npi	nprp	81068		1,770	10/1/97	888	12/31/02	804	10/2/03	1	
npi	nprp	81069		344	6/1/97	165	12/31/02	150	10/2/03	1	
npi	nprp	81069		1,240	10/1/97	622	12/31/02	563	10/2/03	1	
npi	nprp	81070		344	6/1/97	165	12/31/02	150	10/2/03	1	
npi	nprp	81070		1,440	10/1/97	722	12/31/02	654	10/2/03	1	
npi	nprp	81071		380	5/1/96	158	12/31/02	143	10/2/03	1	
npi	nprp	81071		1,500	10/1/97	752	12/31/02	681	10/2/03	1	
npi	nprp	81072		339	6/1/97	163	12/31/02	147	10/2/03	1	
npi	nprp	81072		1,470	10/1/97	737	12/31/02	668	10/2/03	1	
npi	nprp	81073		338	6/1/97	162	12/31/02	147	10/2/03	1	
npi	nprp	81073		1,140	10/1/97	572	12/31/02	518	10/2/03	1	
npi	nprp	81074		376	6/1/97	180	12/31/02	163	10/2/03	1	
npi	nprp	81074		1,640	10/1/97	822	12/31/02	745	10/2/03	1	
npi	nprp	81075		359	6/1/97	172	12/31/02	156	10/2/03	1	
npi	nprp	81075		1,140	10/1/97	572	12/31/02	518	10/2/03	1	
npi	nprp	81076		370	5/1/96	154	12/31/02	139	10/2/03	1	
npi	nprp	81077		366	6/1/97	176	12/31/02	159	10/2/03	1	
npi	nprp	81077		1,860	10/1/97	933	12/31/02	845	10/2/03	1	
npi	nprp	81078		1,280	10/1/97	642	12/31/02	581	10/2/03	1	
npi	nprp	81079		1,440	10/1/97	722	12/31/02	654	10/2/03	1	
npi	nprp	81081		345	6/1/97	166	12/31/02	150	10/2/03	1	
npi	nprp	81082		390	5/1/96	162	12/31/02	147	10/2/03	1	
npi	nprp	81083		390	5/1/96	162	12/31/02	147	10/2/03	1	
npi	nprp	81084		390	5/1/96	162	12/31/02	147	10/2/03	1	
npi	nprp	81088		344	6/1/97	165	12/31/02	150	10/2/03	1	
npi	nprp	81089		344	6/1/97	165	12/31/02	150	10/2/03	1	
npi	nprp	81093		347	6/1/97	167	12/31/02	151	10/2/03	1	
npi	nprp	81103		385	6/1/97	185	12/31/02	167	10/2/03	1	
npi	nprp	8491		6,890	9/1/84	619	12/31/02	560	10/2/03	1	
npi	nprp	8492		8,260	9/1/84	742	12/31/02	672	10/2/03	1	
npi	nprp	8493		7,010	9/1/84	629	12/31/02	570	10/2/03	1	
npi	nprp	8494		6,230	9/1/84	559	12/31/02	507	10/2/03	1	
npi	nprp	86101		1,050	11/20/97	536	12/31/02	486	10/2/03	1	
npi	nprp	86102		990	11/20/97	506	12/31/02	458	10/2/03	1	
npi	nprp	86103		1,030	11/20/97	526	12/31/02	476	10/2/03	1	
npi	nprp	86104		1,050	11/20/97	536	12/31/02	486	10/2/03	1	
npi	nprp	86105		1,070	11/20/97	546	12/31/02	495	10/2/03	1	
npi	nprp	86106		1,050	11/20/97	536	12/31/02	486	10/2/03	1	
npi	nprp	86107		950	11/20/97	485	12/31/02	439	10/2/03	1	
npi	nprp	86108		990	11/20/97	506	12/31/02	458	10/2/03	1	

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## NEUTRON PRODUCTS, INC.

manuf	model	serialno	slugno	curies	cideate	cicalcinv1	cicalcdat1	cicalcinv2	cicalcdat2	countinv	locate
npi	nprp	81026		1,670	10/1/97	838	12/31/02	758	10/2/03	1	
npi	nprp	81027		1,180	10/1/97	592	12/31/02	536	10/2/03	1	
npi	nprp	81028		1,470	10/1/97	737	12/31/02	668	10/2/03	1	
npi	nprp	81029		1,410	10/1/97	707	12/31/02	640	10/2/03	1	
npi	nprp	81030		1,150	10/1/97	577	12/31/02	522	10/2/03	1	
npi	nprp	81031		1,340	10/1/97	672	12/31/02	609	10/2/03	1	
npi	nprp	81032		1,440	10/1/97	722	12/31/02	654	10/2/03	1	
npi	nprp	81033		1,500	10/1/97	752	12/31/02	681	10/2/03	1	
npi	nprp	81034		1,600	10/1/97	802	12/31/02	727	10/2/03	1	
npi	nprp	81035		1,340	10/1/97	672	12/31/02	609	10/2/03	1	
npi	nprp	81036		1,670	10/1/97	838	12/31/02	758	10/2/03	1	
npi	nprp	81037		1,340	10/1/97	672	12/31/02	609	10/2/03	1	
npi	nprp	81038		1,600	10/1/97	802	12/31/02	727	10/2/03	1	
npi	nprp	81040		1,410	10/1/97	707	12/31/02	640	10/2/03	1	
npi	nprp	81041		1,540	10/1/97	772	12/31/02	699	10/2/03	1	
npi	nprp	81042		1,310	10/1/97	657	12/31/02	595	10/2/03	1	
npi	nprp	81043		1,180	10/1/97	592	12/31/02	536	10/2/03	1	
npi	nprp	81044		1,240	10/1/97	622	12/31/02	563	10/2/03	1	
npi	nprp	81046		1,570	10/1/97	787	12/31/02	713	10/2/03	1	
npi	nprp	81047		1,540	10/1/97	772	12/31/02	699	10/2/03	1	
npi	nprp	81048		1,410	10/1/97	707	12/31/02	640	10/2/03	1	
npi	nprp	81049		1,800	10/1/97	903	12/31/02	817	10/2/03	1	
npi	nprp	81050		1,280	10/1/97	642	12/31/02	581	10/2/03	1	
npi	nprp	81051		1,410	10/1/97	707	12/31/02	640	10/2/03	1	
npi	nprp	81052		1,700	10/1/97	853	12/31/02	772	10/2/03	1	
npi	nprp	81053		1,340	10/1/97	672	12/31/02	609	10/2/03	1	
npi	nprp	81054		1,670	10/1/97	838	12/31/02	758	10/2/03	1	
npi	nprp	81055		1,670	10/1/97	838	12/31/02	758	10/2/03	1	
npi	nprp	81056		1,410	10/1/97	707	12/31/02	640	10/2/03	1	
npi	nprp	81057		1,640	10/1/97	822	12/31/02	745	10/2/03	1	
npi	nprp	81058		1,180	10/1/97	592	12/31/02	536	10/2/03	1	
npi	nprp	81059		1,470	10/1/97	737	12/31/02	668	10/2/03	1	
npi	nprp	81060		1,470	10/1/97	737	12/31/02	668	10/2/03	1	
npi	nprp	81061		1,470	10/1/97	737	12/31/02	668	10/2/03	1	
npi	nprp	81062		1,600	10/1/97	802	12/31/02	727	10/2/03	1	
npi	nprp	81063		1,370	10/1/97	687	12/31/02	622	10/2/03	1	
npi	nprp	81064		1,470	10/1/97	737	12/31/02	668	10/2/03	1	
npi	nprp	81065		1,440	10/1/97	722	12/31/02	654	10/2/03	1	
npi	nprp	81066		380	5/1/96	158	12/31/02	143	10/2/03	1	
npi	nprp	81066		1,500	10/1/97	752	12/31/02	681	10/2/03	1	
npi	nprp	81067		351	6/1/97	168	12/31/02	153	10/2/03	1	

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## NEUTRON PRODUCTS, INC.

manuf	model	serialno	slugno	curies	cideate	cicalcinv1	cicalcdate1	cicalcinv2	cicalcdate2	countinv	locate
npi	nprp	79222		1	5/12/93	0	12/31/02	0	10/2/03	1	
npi	nprp	79223		1	5/12/93	0	12/31/02	0	10/2/03	1	
npi	nprp	79224		1	5/12/93	0	12/31/02	0	10/2/03	1	
npi	nprp	79225		1	5/12/93	0	12/31/02	0	10/2/03	1	
npi	nprp	79226		1	5/12/93	0	12/31/02	0	10/2/03	1	
npi	nprp	79227		1	5/12/93	0	12/31/02	0	10/2/03	1	
npi	nprp	79228		1	5/12/93	0	12/31/02	0	10/2/03	1	
npi	nprp	79229		1	5/12/93	0	12/31/02	0	10/2/03	1	
npi	nprp	79230		1	5/12/93	0	12/31/02	0	10/2/03	1	
npi	nprp	79231		1	5/12/93	0	12/31/02	0	10/2/03	1	
npi	nprp	80012		465	6/1/97	223	12/31/02	202	10/2/03	1	
npi	nprp	80017		386	6/1/97	185	12/31/02	168	10/2/03	1	
npi	nprp	80018		380	5/1/96	158	12/31/02	143	10/2/03	1	
npi	nprp	80021		320	7/1/95	119	12/31/02	108	10/2/03	1	
npi	nprp	80022		380	5/1/96	158	12/31/02	143	10/2/03	1	
npi	nprp	80023		310	7/1/95	116	12/31/02	105	10/2/03	1	
npi	nprp	81001		1,410	10/1/97	707	12/31/02	640	10/2/03	1	
npi	nprp	81002		1,280	10/1/97	642	12/31/02	581	10/2/03	1	
npi	nprp	81003		1,440	10/1/97	722	12/31/02	654	10/2/03	1	
npi	nprp	81004		1,370	10/1/97	687	12/31/02	622	10/2/03	1	
npi	nprp	81005		1,340	10/1/97	672	12/31/02	609	10/2/03	1	
npi	nprp	81006		1,310	10/1/97	657	12/31/02	595	10/2/03	1	
npi	nprp	81007		1,210	10/1/97	607	12/31/02	550	10/2/03	1	
npi	nprp	81008		1,470	10/1/97	737	12/31/02	668	10/2/03	1	
npi	nprp	81009		1,240	10/1/97	622	12/31/02	563	10/2/03	1	
npi	nprp	81010		1,210	10/1/97	607	12/31/02	550	10/2/03	1	
npi	nprp	81011		1,410	10/1/97	707	12/31/02	640	10/2/03	1	
npi	nprp	81012		1,800	10/1/97	903	12/31/02	817	10/2/03	1	
npi	nprp	81013		1,340	10/1/97	672	12/31/02	609	10/2/03	1	
npi	nprp	81014		1,440	10/1/97	722	12/31/02	654	10/2/03	1	
npi	nprp	81015		1,370	10/1/97	687	12/31/02	622	10/2/03	1	
npi	nprp	81016		1,560	10/1/97	782	12/31/02	708	10/2/03	1	
npi	nprp	81017		1,540	10/1/97	772	12/31/02	699	10/2/03	1	
npi	nprp	81018		1,540	10/1/97	772	12/31/02	699	10/2/03	1	
npi	nprp	81019		1,050	10/1/97	527	12/31/02	477	10/2/03	1	
npi	nprp	81020		1,240	10/1/97	622	12/31/02	563	10/2/03	1	
npi	nprp	81021		1,400	10/1/97	702	12/31/02	636	10/2/03	1	
npi	nprp	81022		1,410	10/1/97	707	12/31/02	640	10/2/03	1	
npi	nprp	81023		1,310	10/1/97	657	12/31/02	595	10/2/03	1	
npi	nprp	81024		1,600	10/1/97	802	12/31/02	727	10/2/03	1	
npi	nprp	81025		1,540	10/1/97	772	12/31/02	699	10/2/03	1	

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manuf	model	serialno	slugno	curies	cideate	cicalcinv1	cicalcdate1	cicalcinv2	cicalcdate2	countinv	locate
npi	nprp	77260		100	1/1/97	45	12/31/02	41	10/2/03	1	
npi	nprp	77263		110	1/1/97	50	12/31/02	45	10/2/03	1	
npi	nprp	77266		130	1/1/97	59	12/31/02	54	10/2/03	1	
npi	nprp	77269		100	1/1/97	45	12/31/02	41	10/2/03	1	
npi	nprp	77270		80	1/1/97	36	12/31/02	33	10/2/03	1	
npi	nprp	77271		140	1/1/97	64	12/31/02	58	10/2/03	1	
npi	nprp	77274		100	1/1/97	45	12/31/02	41	10/2/03	1	
npi	nprp	77278		100	1/1/97	45	12/31/02	41	10/2/03	1	
npi	nprp	77279		140	1/1/97	64	12/31/02	58	10/2/03	1	
npi	nprp	77280		100	1/1/97	45	12/31/02	41	10/2/03	1	
npi	nprp	77283		110	1/1/97	50	12/31/02	45	10/2/03	1	
npi	nprp	77287		110	1/1/97	50	12/31/02	45	10/2/03	1	
npi	nprp	77289		100	1/1/97	45	12/31/02	41	10/2/03	1	
npi	nprp	77292		140	1/1/97	64	12/31/02	58	10/2/03	1	
npi	nprp	77294		160	1/1/97	73	12/31/02	66	10/2/03	1	
npi	nprp	77295		130	1/1/97	59	12/31/02	54	10/2/03	1	
npi	nprp	77296		160	1/1/97	73	12/31/02	66	10/2/03	1	
npi	nprp	77298		120	1/1/97	55	12/31/02	49	10/2/03	1	
npi	nprp	77299		100	1/1/97	45	12/31/02	41	10/2/03	1	
npi	nprp	77300		140	1/1/97	64	12/31/02	58	10/2/03	1	
npi	nprp	77301		180	1/1/97	82	12/31/02	74	10/2/03	1	
npi	nprp	77303		120	1/1/97	55	12/31/02	49	10/2/03	1	
npi	nprp	77308		100	1/1/97	45	12/31/02	41	10/2/03	1	
npi	nprp	77313		100	1/1/97	45	12/31/02	41	10/2/03	1	
npi	nprp	77317		130	1/1/97	59	12/31/02	54	10/2/03	1	
npi	nprp	77318		160	1/1/97	73	12/31/02	66	10/2/03	1	
npi	nprp	77319		290	1/1/97	132	12/31/02	119	10/2/03	1	
npi	nprp	77320		130	1/1/97	59	12/31/02	54	10/2/03	1	
npi	nprp	77321		150	1/1/97	68	12/31/02	62	10/2/03	1	
npi	nprp	77323		180	1/1/97	82	12/31/02	74	10/2/03	1	
npi	nprp	79210		320	7/1/95	119	12/31/02	108	10/2/03	1	
npi	nprp	79211		310	7/1/95	116	12/31/02	105	10/2/03	1	
npi	nprp	79212		340	7/1/95	127	12/31/02	115	10/2/03	1	
npi	nprp	79213		330	7/1/95	123	12/31/02	111	10/2/03	1	
npi	nprp	79214		330	7/1/95	123	12/31/02	111	10/2/03	1	
npi	nprp	79215		350	7/1/95	131	12/31/02	118	10/2/03	1	
npi	nprp	79216		1	5/12/93	0	12/31/02	0	10/2/03	1	
npi	nprp	79218		1	5/12/93	0	12/31/02	0	10/2/03	1	
npi	nprp	79219		1	5/12/93	0	12/31/02	0	10/2/03	1	
npi	nprp	79220		400	5/1/96	166	12/31/02	151	10/2/03	1	
npi	nprp	79221		1	5/12/93	0	12/31/02	0	10/2/03	1	

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manuf	model	serialno	slugno	curies	cideate	cicalcinv1	cicalcdate1	cicalcinv2	cicalcdate2	countinv	locate
npi	nprp	77143		110	1/1/97	50	12/31/02	45	10/2/03	1	
npi	nprp	77147		100	1/1/97	45	12/31/02	41	10/2/03	1	
npi	nprp	77150		90	1/1/97	41	12/31/02	37	10/2/03	1	
npi	nprp	77153		90	1/1/97	41	12/31/02	37	10/2/03	1	
npi	nprp	77155		100	1/1/97	45	12/31/02	41	10/2/03	1	
npi	nprp	77160		90	1/1/97	41	12/31/02	37	10/2/03	1	
npi	nprp	77165		100	1/1/97	45	12/31/02	41	10/2/03	1	
npi	nprp	77166		90	1/1/97	41	12/31/02	37	10/2/03	1	
npi	nprp	77171		90	1/1/97	41	12/31/02	37	10/2/03	1	
npi	nprp	77183		100	1/1/97	45	12/31/02	41	10/2/03	1	
npi	nprp	77185		90	1/1/97	41	12/31/02	37	10/2/03	1	
npi	nprp	77189		110	1/1/97	50	12/31/02	45	10/2/03	1	
npi	nprp	77191		90	1/1/97	41	12/31/02	37	10/2/03	1	
npi	nprp	77192		90	1/1/97	41	12/31/02	37	10/2/03	1	
npi	nprp	77193		90	1/1/97	41	12/31/02	37	10/2/03	1	
npi	nprp	77196		90	1/1/97	41	12/31/02	37	10/2/03	1	
npi	nprp	77200		100	1/1/97	45	12/31/02	41	10/2/03	1	
npi	nprp	77201		90	1/1/97	41	12/31/02	37	10/2/03	1	
npi	nprp	77202		100	1/1/97	45	12/31/02	41	10/2/03	1	
npi	nprp	77204		90	1/1/97	41	12/31/02	37	10/2/03	1	
npi	nprp	77206		90	1/1/97	41	12/31/02	37	10/2/03	1	
npi	nprp	77209		90	1/1/97	41	12/31/02	37	10/2/03	1	
npi	nprp	77211		90	1/1/97	41	12/31/02	37	10/2/03	1	
npi	nprp	77215		100	1/1/97	45	12/31/02	41	10/2/03	1	
npi	nprp	77216		100	1/1/97	45	12/31/02	41	10/2/03	1	
npi	nprp	77219		100	1/1/97	45	12/31/02	41	10/2/03	1	
npi	nprp	77220		110	1/1/97	50	12/31/02	45	10/2/03	1	
npi	nprp	77221		90	1/1/97	41	12/31/02	37	10/2/03	1	
npi	nprp	77225		100	1/1/97	45	12/31/02	41	10/2/03	1	
npi	nprp	77226		100	1/1/97	45	12/31/02	41	10/2/03	1	
npi	nprp	77232		100	1/1/97	45	12/31/02	41	10/2/03	1	
npi	nprp	77233		100	1/1/97	45	12/31/02	41	10/2/03	1	
npi	nprp	77234		80	1/1/97	36	12/31/02	33	10/2/03	1	
npi	nprp	77236		100	1/1/97	45	12/31/02	41	10/2/03	1	
npi	nprp	77242		100	1/1/97	45	12/31/02	41	10/2/03	1	
npi	nprp	77244		100	1/1/97	45	12/31/02	41	10/2/03	1	
npi	nprp	77245		90	1/1/97	41	12/31/02	37	10/2/03	1	
npi	nprp	77248		90	1/1/97	41	12/31/02	37	10/2/03	1	
npi	nprp	77250		100	1/1/97	45	12/31/02	41	10/2/03	1	
npi	nprp	77256		100	1/1/97	45	12/31/02	41	10/2/03	1	
npi	nprp	77257		90	1/1/97	41	12/31/02	37	10/2/03	1	

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 coinv02 coinv02  
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## NEUTRON PRODUCTS, INC.

manuf	model	serialno	slugno	curies	cideate	cicalcinv1	cicalcdate1	cicalcinv2	cicalcdate2	countinv	locate
npi	nprp	74221		78	11/20/97	40	12/31/02	36	10/2/03	1	
npi	nprp	74222		78	11/20/97	40	12/31/02	36	10/2/03	1	
npi	nprp	74223		78	11/20/97	40	12/31/02	36	10/2/03	1	
npi	nprp	74224		81	11/20/97	41	12/31/02	37	10/2/03	1	
npi	nprp	74225		77	11/20/97	39	12/31/02	36	10/2/03	1	
npi	nprp	74226		75	11/20/97	38	12/31/02	35	10/2/03	1	
npi	nprp	74227		72	11/20/97	37	12/31/02	33	10/2/03	1	
npi	nprp	74228		67	11/20/97	34	12/31/02	31	10/2/03	1	
npi	nprp	74229		76	11/20/97	39	12/31/02	35	10/2/03	1	
npi	nprp	74230		65	11/20/97	33	12/31/02	30	10/2/03	1	
npi	nprp	74231		73	11/20/97	37	12/31/02	34	10/2/03	1	
npi	nprp	74232		68	11/20/97	35	12/31/02	31	10/2/03	1	
npi	nprp	74233		65	11/20/97	33	12/31/02	30	10/2/03	1	
npi	nprp	74234		68	11/20/97	35	12/31/02	31	10/2/03	1	
npi	nprp	74235		64	11/20/97	33	12/31/02	30	10/2/03	1	
npi	nprp	74236		66	11/20/97	34	12/31/02	31	10/2/03	1	
npi	nprp	74237		66	11/20/97	34	12/31/02	31	10/2/03	1	
npi	nprp	74238		67	11/20/97	34	12/31/02	31	10/2/03	1	
npi	nprp	74239		61	11/20/97	31	12/31/02	28	10/2/03	1	
npi	nprp	74240		65	11/20/97	33	12/31/02	30	10/2/03	1	
npi	nprp	74241		66	11/20/97	34	12/31/02	31	10/2/03	1	
npi	nprp	76806		1	5/12/93	0	12/31/02	0	10/2/03	1	
npi	nprp	76809		1	5/12/93	0	12/31/02	0	10/2/03	1	
npi	nprp	77102		100	1/1/97	45	12/31/02	41	10/2/03	1	
npi	nprp	77105		110	1/1/97	50	12/31/02	45	10/2/03	1	
npi	nprp	77108		90	1/1/97	41	12/31/02	37	10/2/03	1	
npi	nprp	77112		90	1/1/97	41	12/31/02	37	10/2/03	1	
npi	nprp	77113		100	1/1/97	45	12/31/02	41	10/2/03	1	
npi	nprp	77114		100	1/1/97	45	12/31/02	41	10/2/03	1	
npi	nprp	77117		100	1/1/97	45	12/31/02	41	10/2/03	1	
npi	nprp	77119		90	1/1/97	41	12/31/02	37	10/2/03	1	
npi	nprp	77121		100	1/1/97	45	12/31/02	41	10/2/03	1	
npi	nprp	77122		90	1/1/97	41	12/31/02	37	10/2/03	1	
npi	nprp	77124		100	1/1/97	45	12/31/02	41	10/2/03	1	
npi	nprp	77125		110	1/1/97	50	12/31/02	45	10/2/03	1	
npi	nprp	77127		110	1/1/97	50	12/31/02	45	10/2/03	1	
npi	nprp	77128		110	1/1/97	50	12/31/02	45	10/2/03	1	
npi	nprp	77133		90	1/1/97	41	12/31/02	37	10/2/03	1	
npi	nprp	77135		100	1/1/97	45	12/31/02	41	10/2/03	1	
npi	nprp	77138		90	1/1/97	41	12/31/02	37	10/2/03	1	
npi	nprp	77142		100	1/1/97	45	12/31/02	41	10/2/03	1	

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## NEUTRON PRODUCTS, INC.

manuf	model	serialno	slugno	curies	cideate	cicalcinv1	cicalcdate1	cicalcinv2	cicalcdate2	countinv	locate
amersham	CKC171	0503ET		1,690	2/1/98	886	12/31/02	802	10/2/03	1	
amersham	CKC201	0370ET		2,500	4/1/97	1,174	12/31/02	1,063	10/2/03	1	
amersham		0536ET		5,687	11/1/91	1,310	12/31/02	1,186	10/2/03	1	
amersham		0624ET		5,500	3/1/95	1,963	12/31/02	1,777	10/2/03	1	
ams	3801	AMS2486		850	3/1/98	450	12/31/02	408	10/2/03	1	
ams	ams	AMS2616		1,800	9/21/01	1,522	12/31/02	1,378	10/2/03	1	
AMS	AMS 3802	AMS22334		2,759	7/1/85	276	12/31/02	250	10/2/03	1	
ams		2576		1,947	2/1/88	274	12/31/02	248	10/2/03	1	
ams		2584		2,121	4/1/89	348	12/31/02	315	10/2/03	1	
ams		AMS-????		1	1/1/60	0	12/31/02	0	10/2/03	1	
ams		AMS2404		167	5/12/97	80	12/31/02	72	10/2/03	1	
ams		AMS2545		900	5/1/96	375	12/31/02	339	10/2/03	1	
ams		AMS2568		1	1/1/60	0	12/31/02	0	10/2/03	1	
ams		AMS2597		1,450	1/1/60	5	12/31/02	5	10/2/03	1	
arg	16	119-13		971	6/1/94	314	12/31/02	284	10/2/03	1	
arg	24	101-11B		1,010	8/1/97	496	12/31/02	449	10/2/03	1	
arg	24	101-12B		1,140	8/1/97	559	12/31/02	506	10/2/03	1	
arg	24	105-5		16,890	8/1/97	8,287	12/31/02	7,504	10/2/03	1	
arg	24	109-6B		2,630	8/1/97	1,290	12/31/02	1,168	10/2/03	1	
arg	24	119-15B		590	8/1/97	289	12/31/02	262	10/2/03	1	
ceo		CEO1602		1	1/1/60	0	12/31/02	0	10/2/03	1	
cgr		CGR3774		1,330	4/21/96	552	12/31/02	499	10/2/03	1	
CIS-bio		3789		1,400	4/17/02	1,276	12/31/02	1,155	10/2/03	1	tx
ge	CKC171	0503ET		1,690	2/1/98	886	12/31/02	802	10/2/03	1	
ge	GE106D39	GET20196		1,370	1/15/98	714	12/31/02	646	10/2/03	1	
ge	GE106D39	GET20196		1,370	1/15/98	714	12/31/02	646	10/2/03	1	
ge	GET	GET-20-216		1,920	1/1/60	7	12/31/02	6	10/2/03	1	
ge	GET	GET-20-220		1,809	10/10/97	910	12/31/02	824	10/2/03	1	
ge		GET1062		1	1/1/60	0	12/31/02	0	10/2/03	1	
GE	x			6,670	7/1/93	1,913	12/31/02	1,732	10/2/03	1	
npi	nprp	74210		9	11/20/97	5	12/31/02	4	10/2/03	1	
npi	nprp	74211		12	11/20/97	6	12/31/02	6	10/2/03	1	
npi	nprp	74212		15	11/20/97	8	12/31/02	7	10/2/03	1	
npi	nprp	74213		19	11/20/97	10	12/31/02	9	10/2/03	1	
npi	nprp	74214		15	11/20/97	8	12/31/02	7	10/2/03	1	
npi	nprp	74215		13	11/20/97	7	12/31/02	6	10/2/03	1	
npi	nprp	74216		15	11/20/97	8	12/31/02	7	10/2/03	1	
npi	nprp	74217		18	11/20/97	9	12/31/02	8	10/2/03	1	
npi	nprp	74218		88	11/20/97	45	12/31/02	41	10/2/03	1	
npi	nprp	74219		79	11/20/97	40	12/31/02	37	10/2/03	1	
npi	nprp	74220		83	11/20/97	42	12/31/02	38	10/2/03	1	

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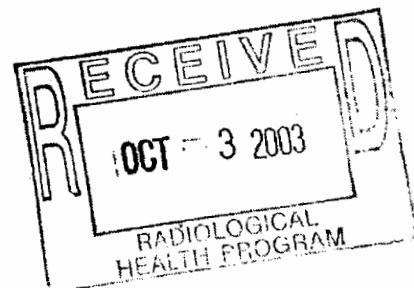
NPI

Sum of cicalcinv2	
locate	Total
tx	33,323
(blank)	309,771
Grand Total	343,094

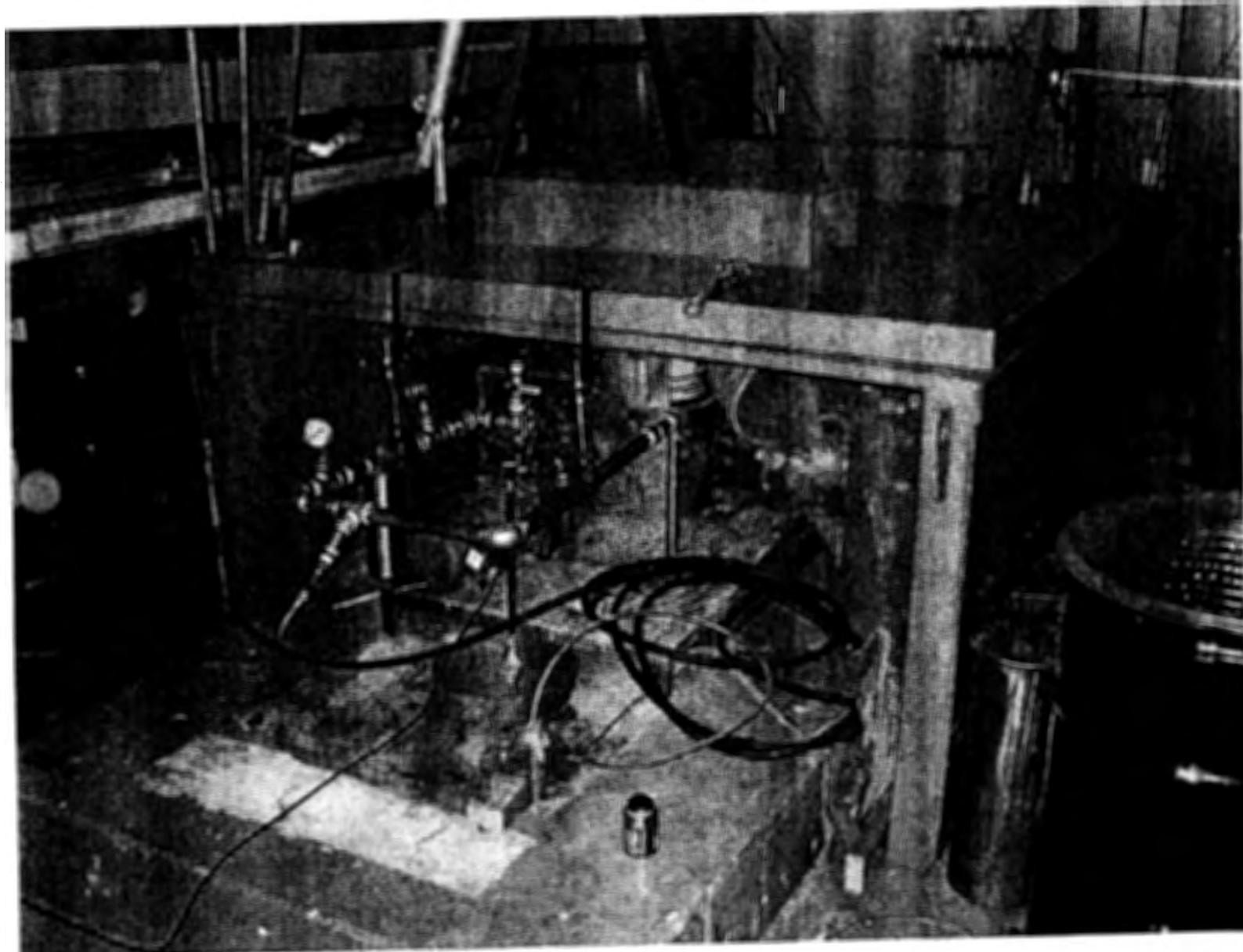
MAIN POOL INVENTORY (ACCOUNTING) = 309,771  
+ 148,376 —  
458,147

PLUS STELLITE, PLUTONIUM, PLUS SOURCES LISTED @ 1 C; DUE TO  
NEED TO CALIBRATE THEM, FOR A TOTAL  
OF 527,796.

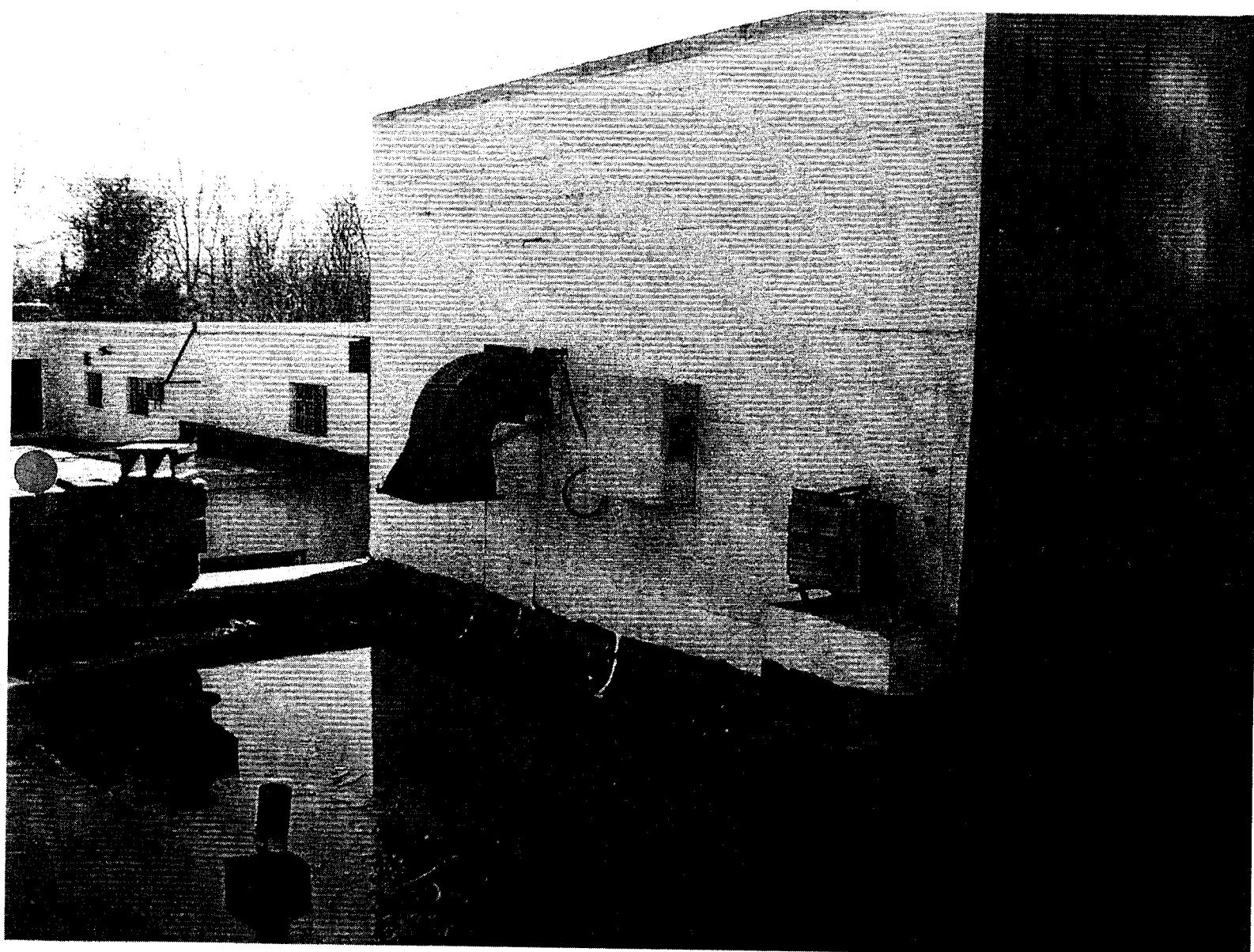
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coinv02 pvt\_coinv02  
1 of 1



ORIGINAL

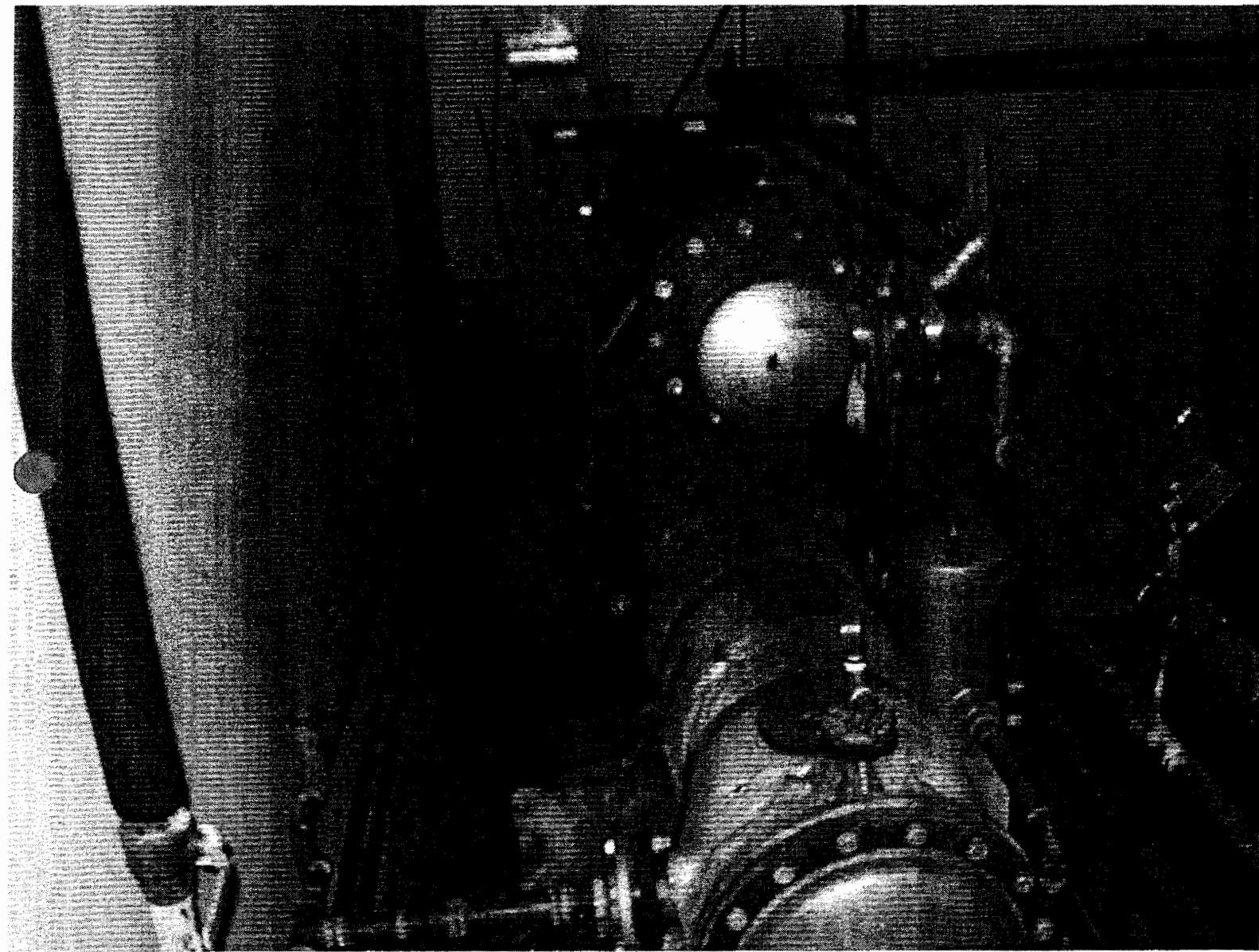


North Carol Sand Pit

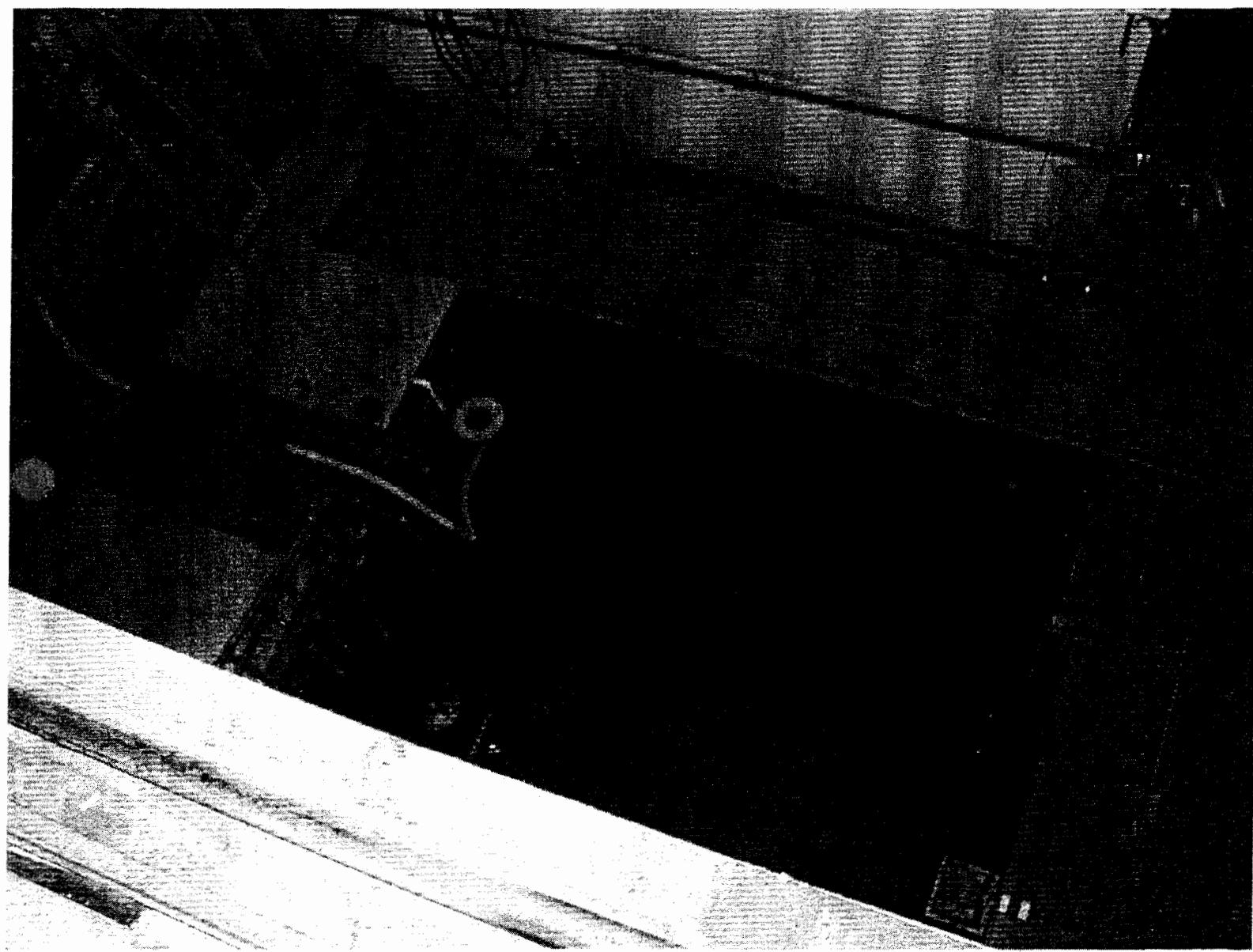


LAA Roof

ORIGINAL



Heat exchanger over main pool

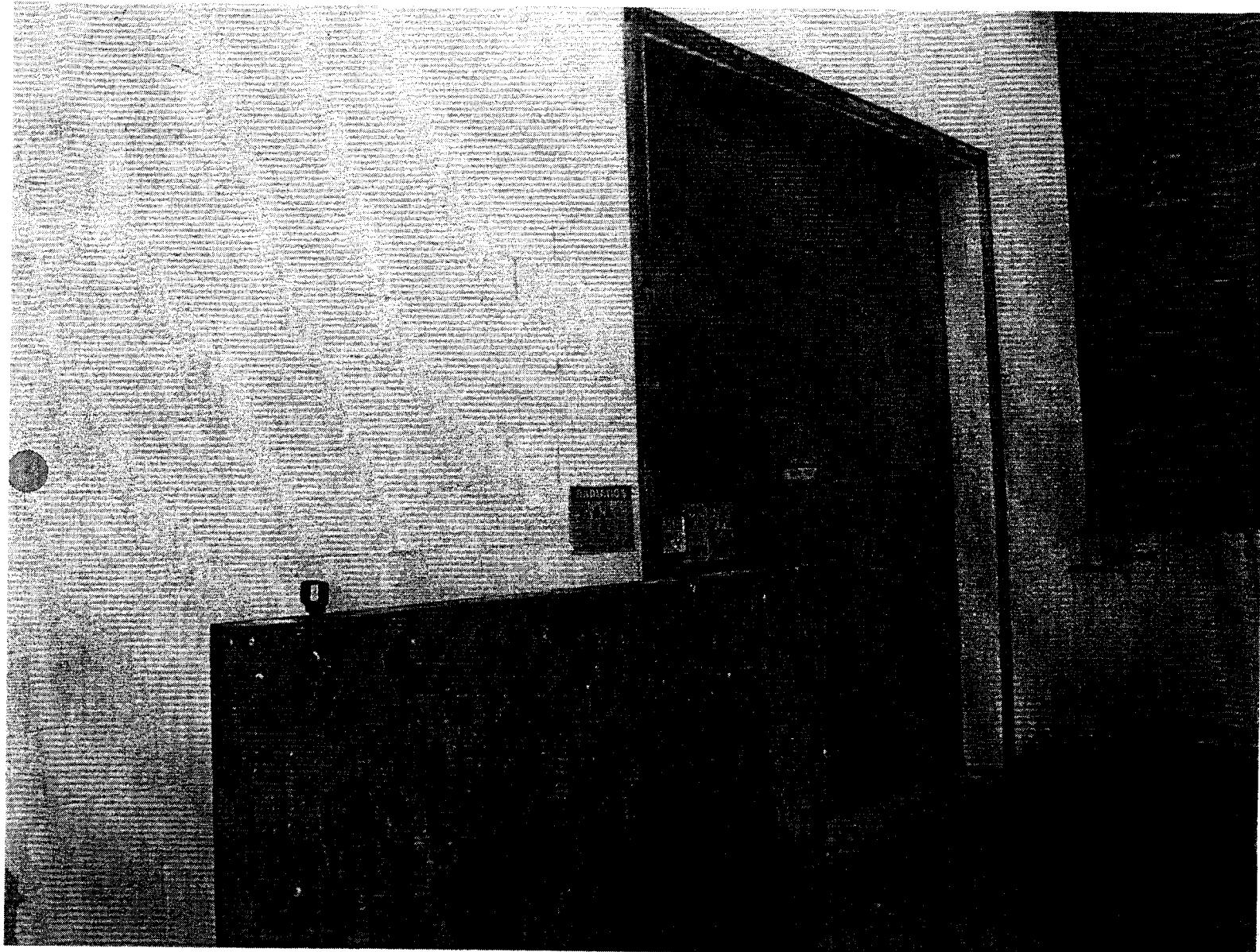


main pool

ORIGINAL



South waste Room door



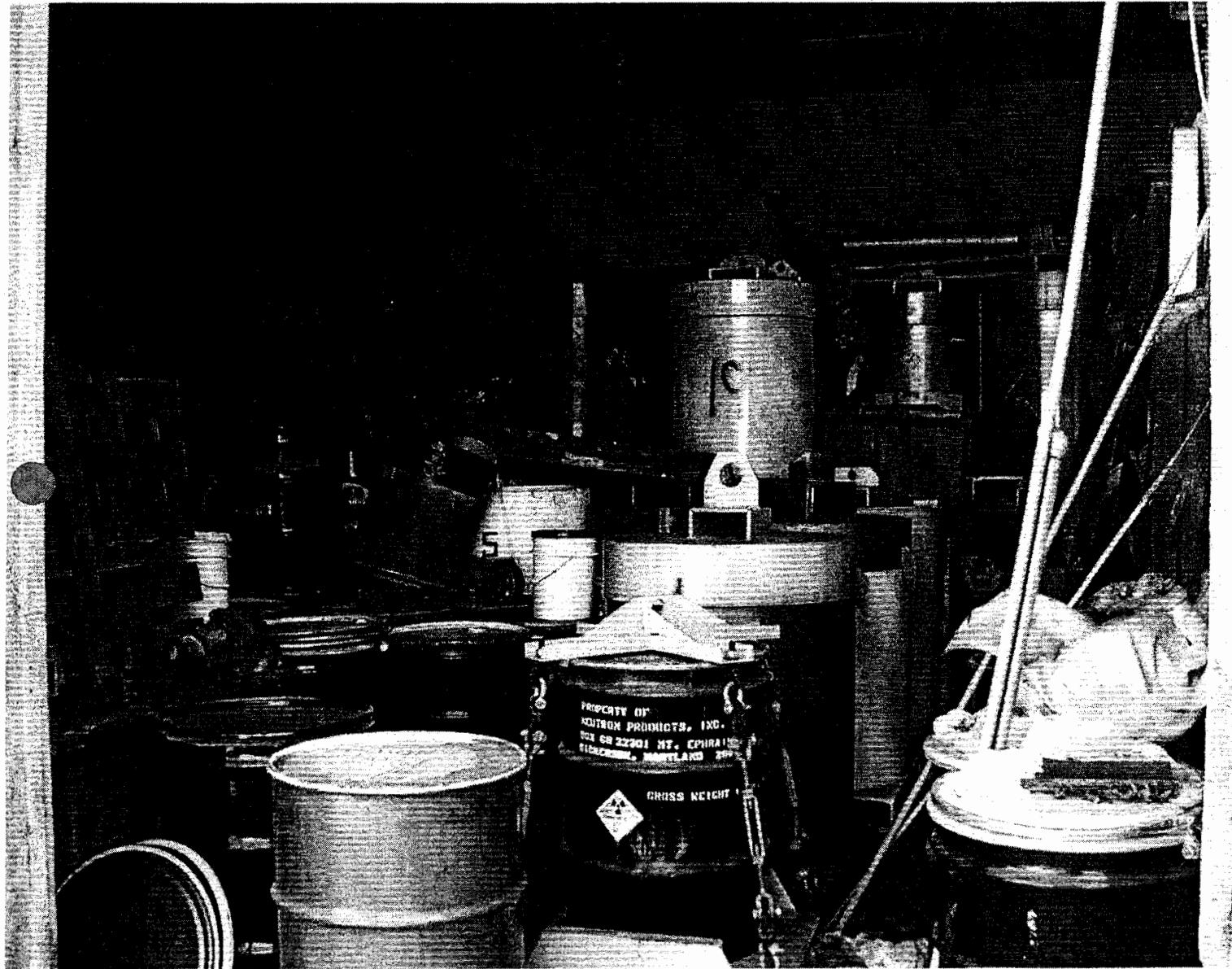
South West Room door

**MDE****MARYLAND DEPARTMENT OF THE ENVIRONMENT<sup>ORIGINAL</sup>**  
1800 Washington Boulevard • Baltimore MD 21230  
410-537-3000 • 1-800-633-6101

Robert L. Ehrlich, Jr.  
Governor

Kendl P. Philbrick  
Acting Secretary

Michael S. Steele  
Lt. Governor

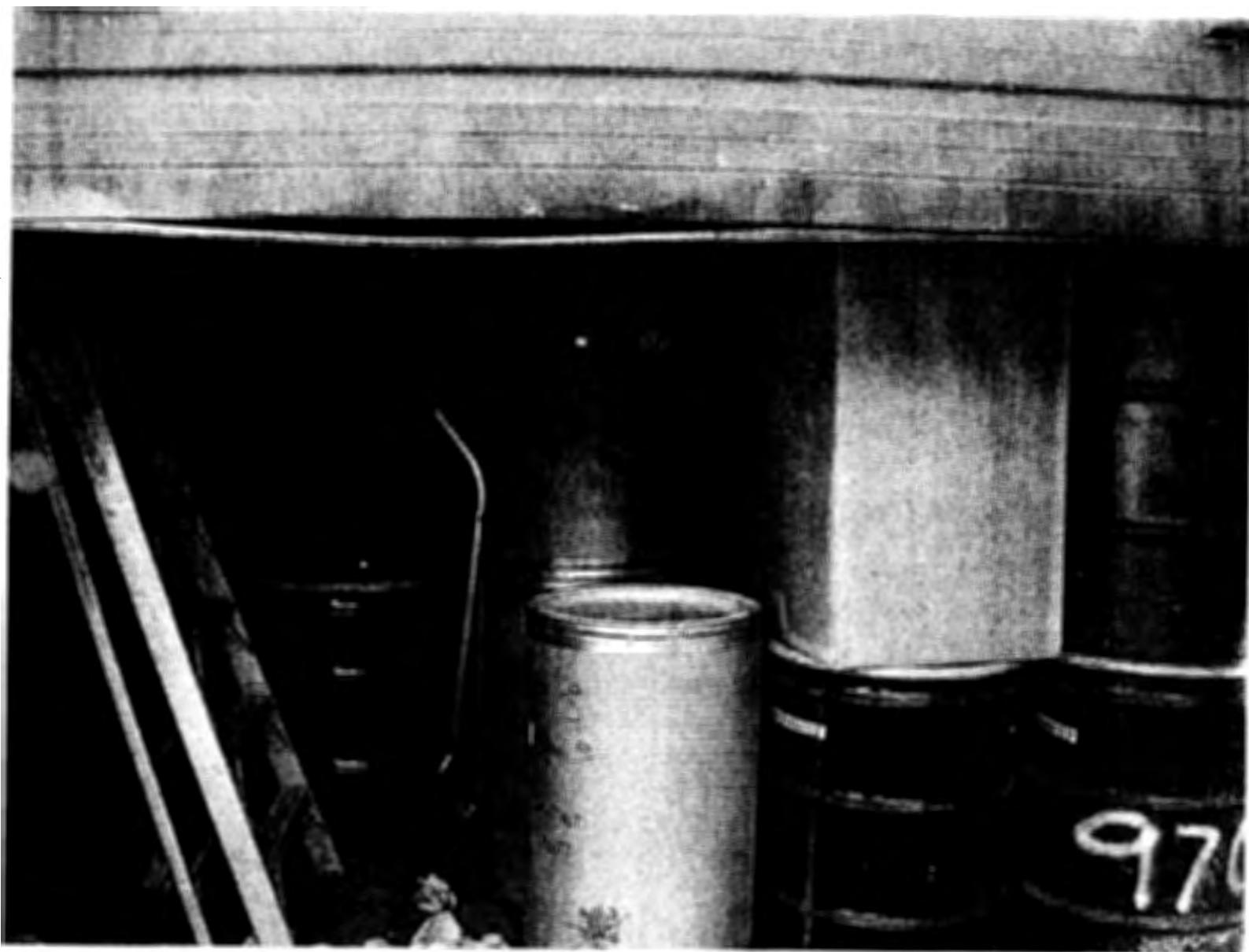


North Waste Room



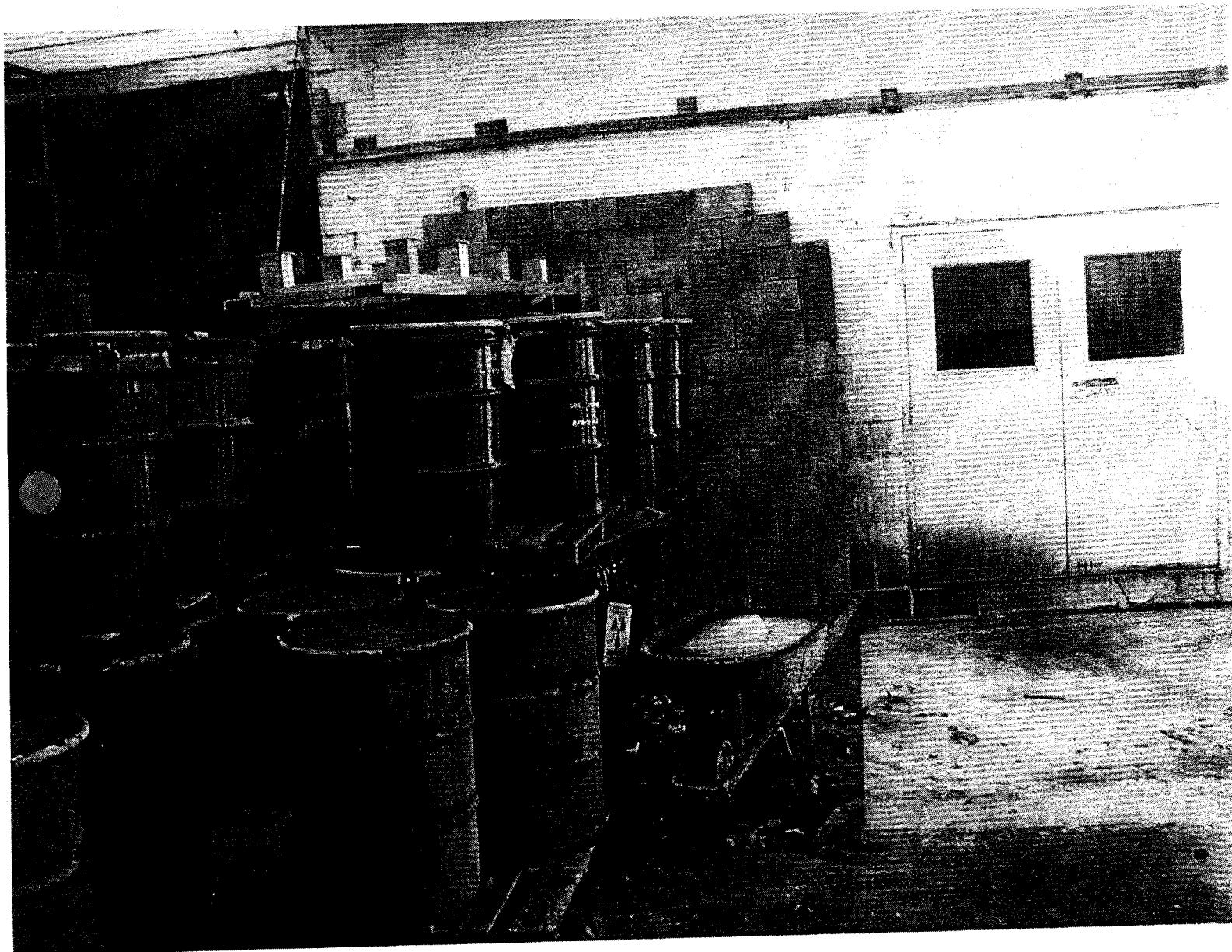
Recycled Paper

[www.mde.state.md.us](http://www.mde.state.md.us)TTY Users 1-800-735-2258  
Via Maryland Relay Service



South Waste Room

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Court yard



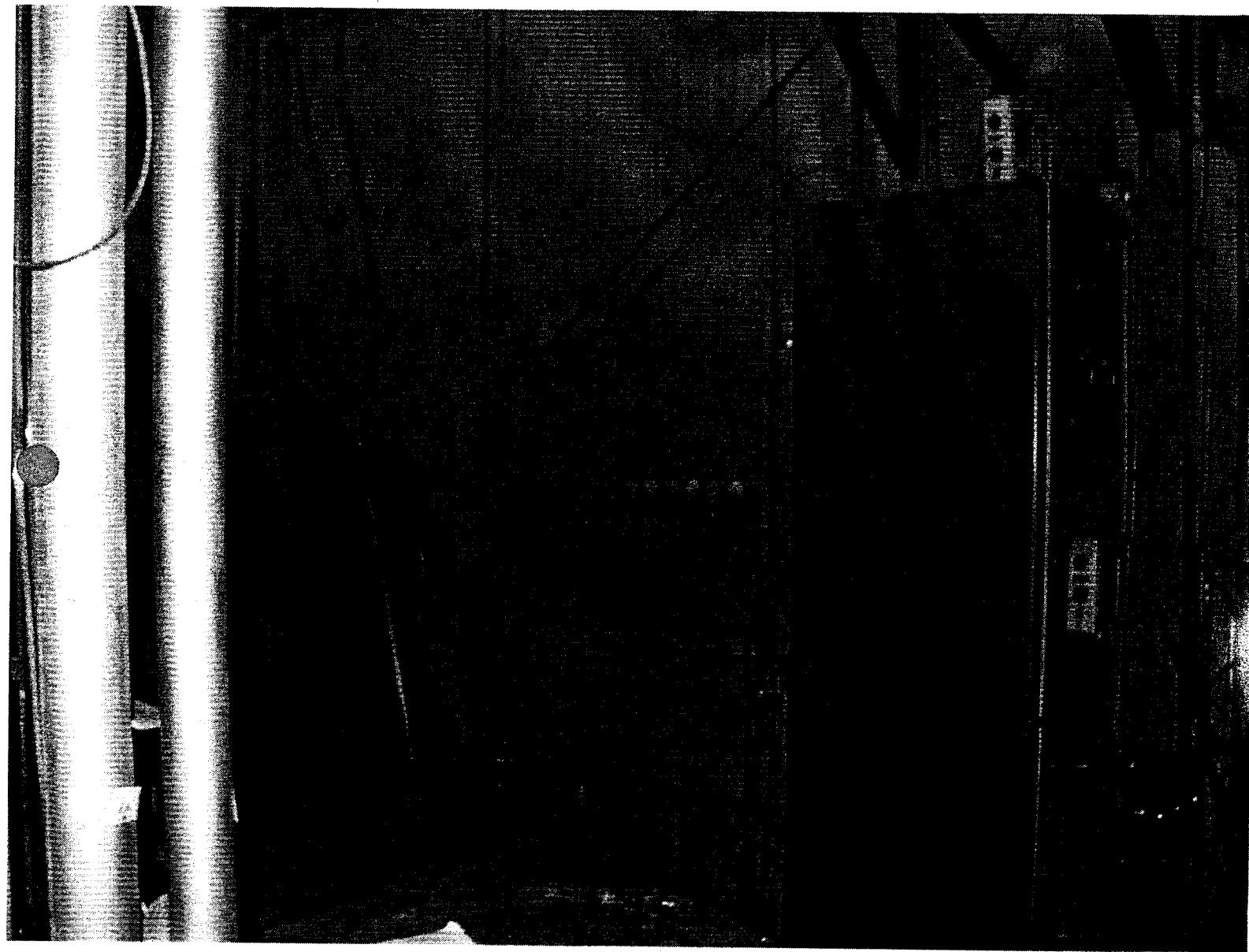
South Waste Room

ORIGINAL

9

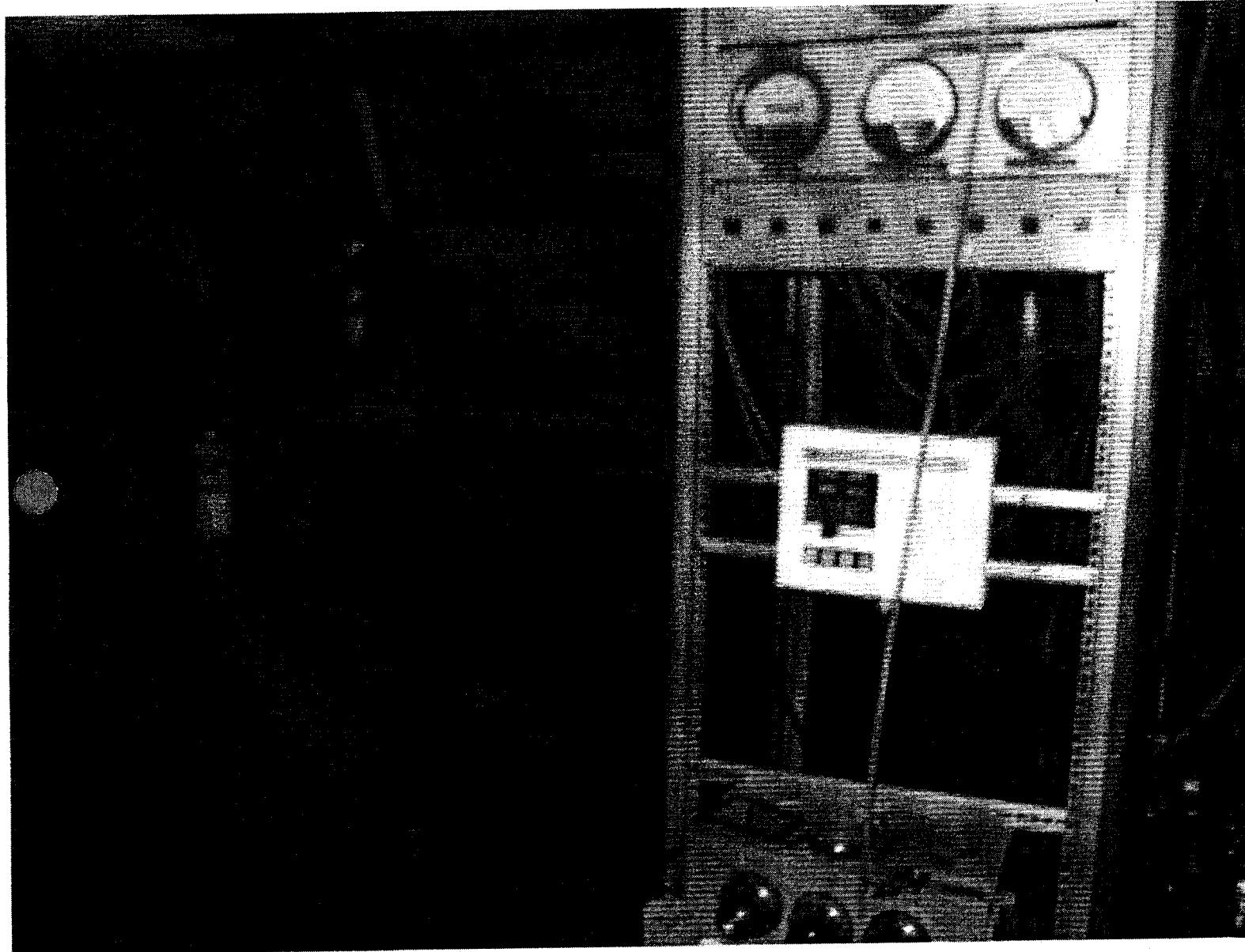


North waste room door

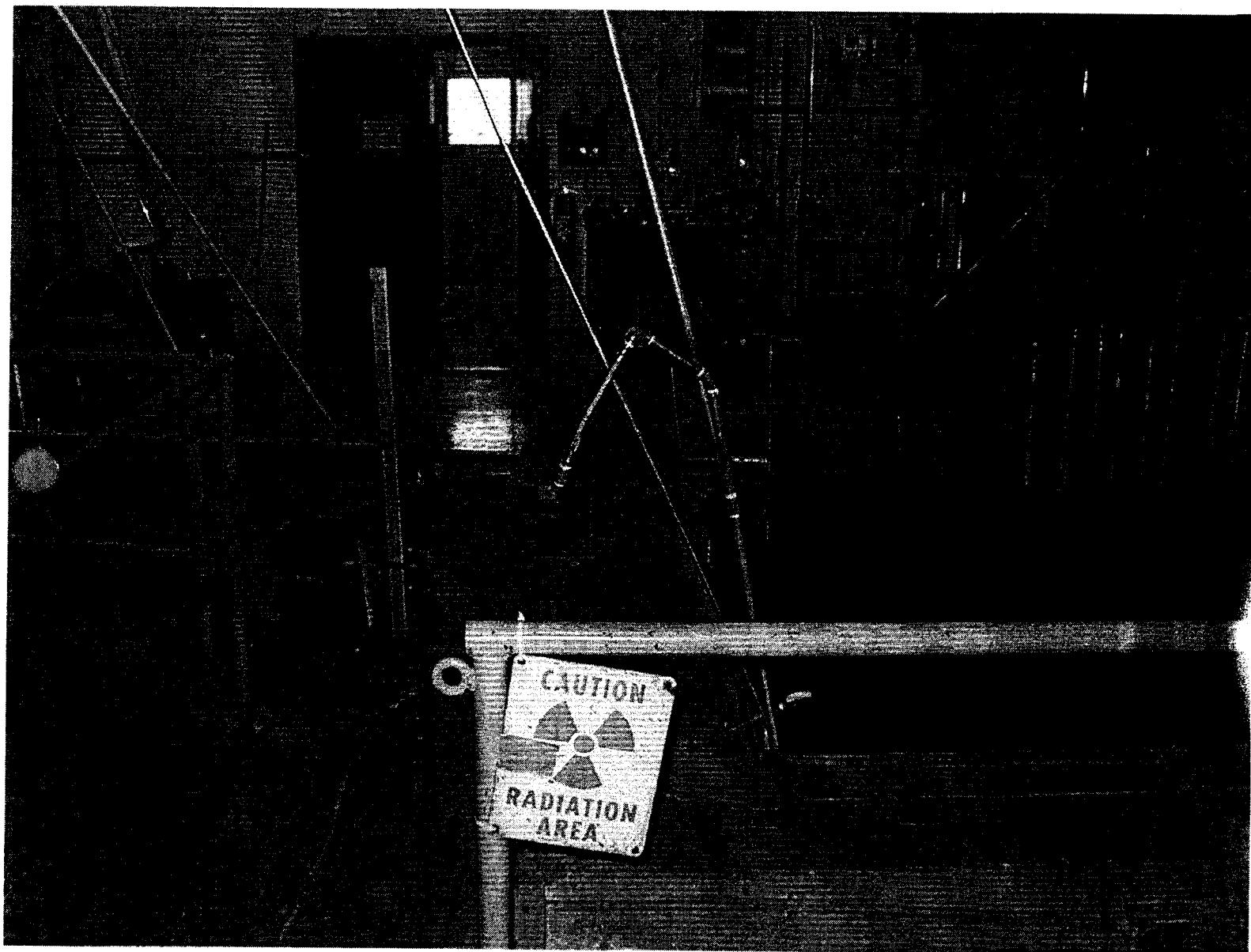


North Canol weld pressure towers

ORIGINAL

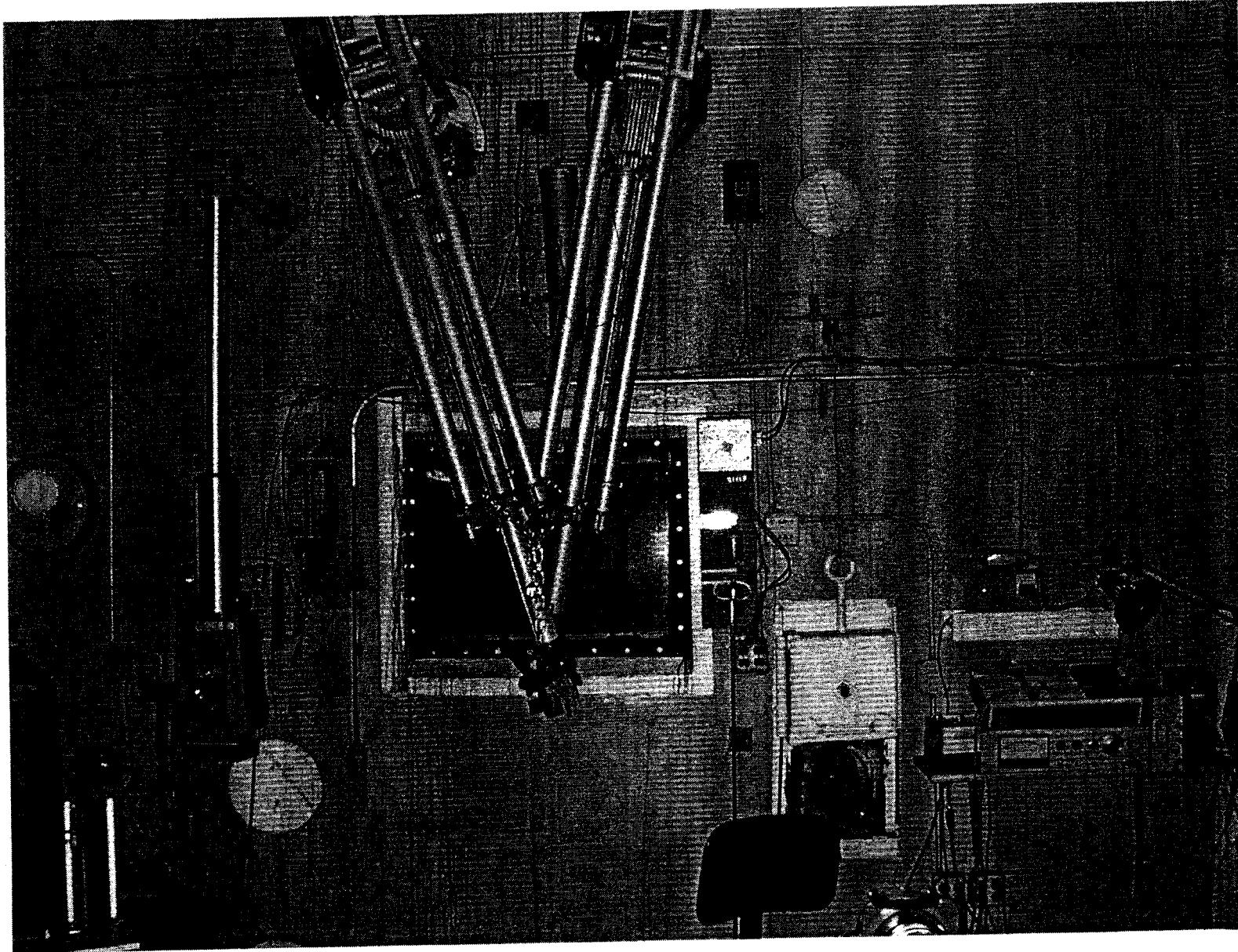


Hot cell Monitors

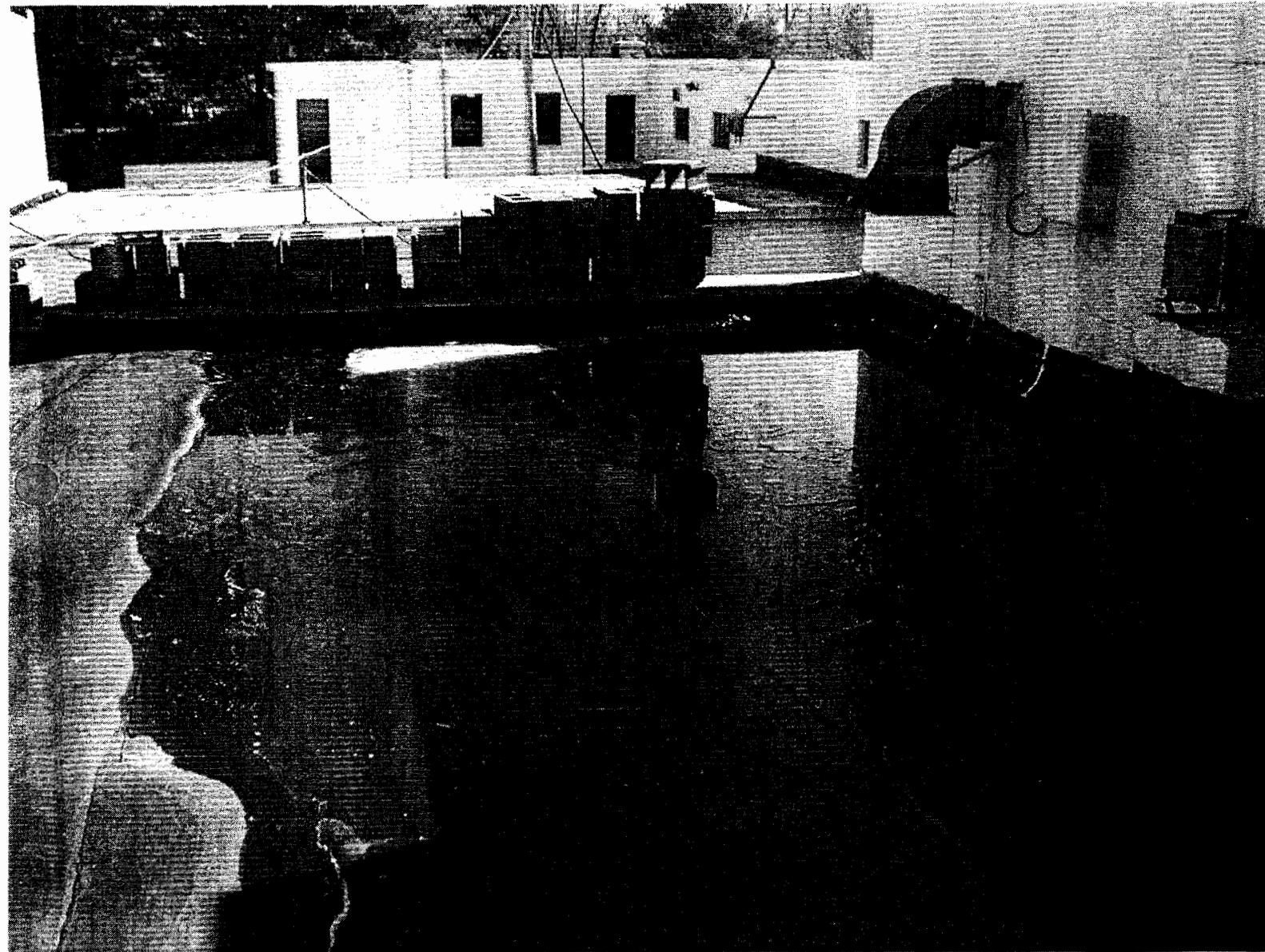


Main Pool + South Canal

ORIGINAL



Chained Hot Cell Manipulator

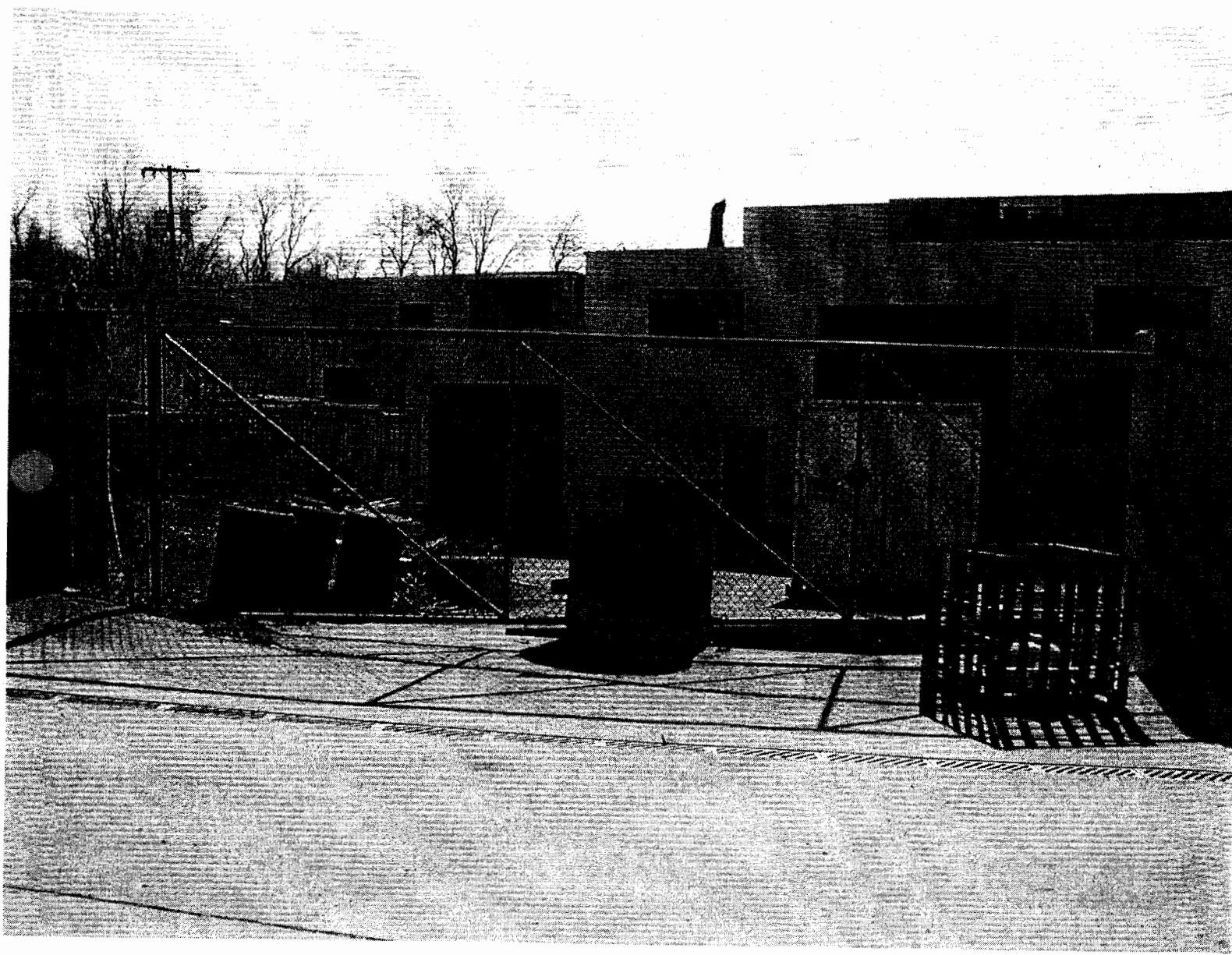


Root of CAA

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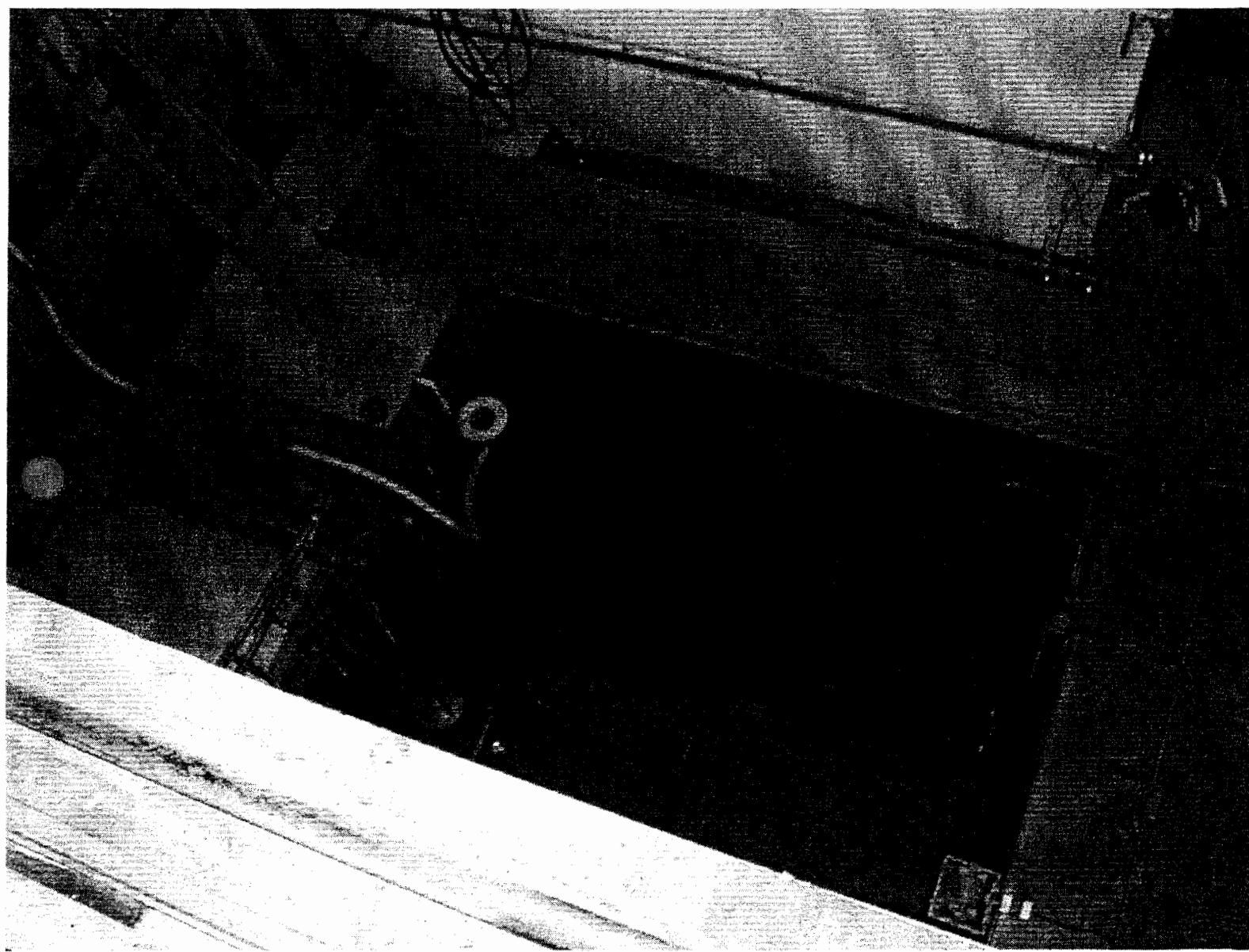


Lock on Dumpster



Outside of Courtyard

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Main Pool

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MARYLAND DEPARTMENT OF THE ENVIRONMENT  
AIR AND RADIATION MANAGEMENT ADMINISTRATION  
RADIOLOGICAL HEALTH PROGRAM  
RADIOACTIVE MATERIALS ENFORCEMENT AND COMPLIANCE UNIT  
1800 WASHINGTON BLVD.  
BALTIMORE, MARYLAND 21230  
410-537-3302

**RADIOACTIVE MATERIALS INSPECTION REPORT**

Licensee: Neutron Products, Inc.  
22301 Mt. Ephraim Road  
P.O. Box 68  
Dickerson MD 20842

Radioactive Materials License Number: MD-31-025-01  
Phone: 301-349-5001  
FAX: 301-349-5007

Dates of Inspection: February 23, 2004  
February 24, 2004  
March 4, 2004

Ray Manley  
Ray Manley, Program Manager

4/30/04  
Date

Alan Jacobson  
Alan Jacobson, Health Physicist Supervisor

4-28-2004  
Date

Bob Nelson  
Bob Nelson, Health Physicist III

4/29/04  
Date

Mary Lally  
Mary Lally, Health Physicist III

4-28-04  
Date

## **PROGRAM**

NPI's license to manufacture and distribute cobalt-60 sealed sources for teletherapy and radiation processing is currently under a permanent injunction. A November 2, 2000 Montgomery County Court Order requires NPI to cease and desist from conducting any activities under the license except as specifically approved by the Department. Currently, NPI possess 510,600 Curies of cobalt-60. In addition, the radioactive waste inventories were, 2376 Curies-Main Pool, 93 Curies-North Canal and 142 Curies-Dry Storage (137 drums, 23 B-25s, plastic bags and cardboard boxes). Only approximately 70,000 Curies has a specific activity sufficient for teletherapy grade sources. Current authorized activities include maintenance of safety systems, survey meter calibration, Health Physics sampling and storage of cobalt-60. NPI employs 62 workers, with 4 of these employees working in the Limited Access (LAA). Members of this LAA crew are spending progressively more time working outside of the LAA. By regulation and confirmed by the Maryland Court of Special Appeals, NPI's LAA must be decommissioned in a safe and timely manner. Private consultants contracted by MDE estimated the cost of this process to be between 6 and 21 million dollars. In a February 4, 2004 letter to the Department, Jackson Ransohoff estimates decommissioning costs to range between 30 and 40 million dollars. Currently, NPI and MDE have approximately \$60,000 in escrow for the shipment of radioactive waste. Apparently, NPI has limited resources and/or they lack a commitment from their management to facilitate the decommissioning process. The United States Environmental Protection Agency has verbally indicated that they would step in and immediately maintain safety systems and stabilize potential hazards in the event of an accident or if the company decided to abandon the site. NPI's senior Management has both, verbally and in writing, stated that they will only comply with those radiation regulations that they agree with and will continue to violate requirements that they disagree with.

## **SCOPE OF INSPECTION**

Ms. Mary Lally, Messrs. Ray Manley, Bob Nelson and Alan Jacobson of the Maryland Department of the Environment's (MDE) Radiological Health Program (RHP) conducted a radioactive materials inspection of NPI's 01 license on February 23, 24 and March 4, 2004. The inspection examined radiation safety, compliance with conditions of your license, adherence to procedures and proper maintenance of records, interviews with personnel, general observations, and independent measurements. As a result of the inspection, the Inspection Team identified specific concerns and certain activities that were found to be in violation of the Department's requirements. These findings were discussed with Ms. Kathy Bupp, Messrs. Jeffrey Williams, and William Ransohoff during the licensee management exit interview held on March 4, 2004. The Inspectors prepared and issued MDER E-1, Radioactive Material Inspection Findings and Licensee Acknowledgement Form. A Departmental letter-Notice of Violation will be sent to NPI.

## **INTERVIEWS**

Interviews were conducted with the following NPI employees:

Jeffrey Williams	Radiation Safety Officer
Billy Ransohoff	Project Engineer
Kathy Bupp	Health Physics Technician
Danny Wineholt	LAA-Health Physicist

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## SPECIFIC AREAS OF REVIEW

The following areas were inspected and reviewed: Dosimetry, Occupational Exposures, Random Inspections, Quarterly Audits, Radiation Safety Committee Minutes, Respiratory Protection Program, Inventory, Pool Water Quality, General Operations in the Limited Access Area (LAA), Implementation of Radiation Safety Program, Boundary Monitoring, One Kilometer Surveys, Shipping and Receiving Records, Floor Monitoring, Health Physics Monthly Reports, Disposal of Radioactive Waste, Training, Air Monitoring, Survey Meter Calibration, Water Monitoring, Whole Body Counting Records, Exposure to Members of the General Public, Posting of Required Documents, Soil Contamination, Compliance with the License Termination Rule, Financial Assurance for Decommissioning, ALARA (D.101 requirements), Review of the Radiological Sample Counting System, Review of the Main Pool Inventory Record and Waste Storage. Soil samples were collected from the dry pond and adjacent areas and analyzed by the Maryland Laboratory Administration. Inspectors conducted a radiological survey of the Meem Property and identified two discreet spots that were contaminated with cobalt-60 as a result of uncontrolled releases of radioactive material from the Dickerson facility. The Inspection Team collected a sample from each spot and notified the property owner by phone. NPI removed the remaining contaminated soil and replaced the area with clean soil. Inspectors collected pool water samples and conducted a contamination survey (wipe survey) of the LAA.

## STATUS OF HOT CELL

The Hot Cell manipulators, Hot Cell door and Hot Tool Room door were locked and sealed by MDE Inspectors on September 19, 2002. The Hot Cell has not been used or entered since then. The RSO states that NPI personnel need access to the Hot Cell to replace a light bulb and a roughing filter. MDE Inspectors planned to remove the locks and the seals during the inspection so this could be accomplished. During the inspection, NPI did not have any LAA personnel fit-tested for respiratory protection. As a result, no one was qualified to enter the Hot Cell and the entry had to be delayed. Billy Ransohoff stated that NPI would like to use the Hot Cell for other activities including inventory, testing for leakage of sources and fabricating sources for transport into the irradiators. The RSO agreed to provide the RHP a written request for Hot Cell entry describing the exact activities that need to be conducted. MDE Inspectors agreed to schedule a day to be on site so the Hot Cell light bulb and roughing filter could be replaced.

## INDEPENDENT PHYSICAL MEASURMENTS

-Inovision 451 P #736 Calibrated by Global on 2/7/2004

Meem Hot Spot 1	160-210 uR/hr
Meem Hot Spot 2	32-40 uR/hr
Admin Window-1 2 <sup>nd</sup> Floor	300 uR/hr
Admin Window-2 2 <sup>nd</sup> Floor	240 uR/hr
Records Room	4-7 uR/hr
Helguson Chamber	5-13 uR/hr
Helguson Control Room	50-68 uR/hr
Counting Lab	5-11 uR/hr
BKG	4-7 uR/hr

-Inovision 451 P #737 Calibrated by Global on 2/7/2004

25 uR/hr	NPI Parking Lot
17 mRem/hr	LAA-Hot Cell Window
23 mR/hr	Hot Tool Cart
17 mR/hr	Hot Tool Room Door
5 mR/hr	1-meter over Main Pool
15 mR/hr	1-meter over South Canal
7.5 mR/hr	1-meter over North Canal
270 mR/hr	North Waste Room Door-Open
82 mR/hr	South Waste Room Door-Open
16 mR/hr	Fan Room/HEPA/2 <sup>nd</sup> Floor
330 uR/hr	Center of Courtyard @ 1-meter

-Ludlim 12 S #85139 Calibrated by RSO Inc. on 10/14/2003

Meem Hot Spot 1      200 uR/hr  
 Meem Hot Spot 2      80 uR/hr

-Eberline PRM-6 with 2 inch scintillation probe, calibrated by RSO Inc. on 10/6/2003

Meem Hot Spot 1      38,000 cpm      BKG is 900 cpm  
 Meem Hot Spot 2      2000 cpm

## CONCERNS

1. Inspection findings indicate that NPI does not have the trained personnel, financial resources and management commitment to decommission the Limited Access Area (LAA) in a timely, safe and predictable manner as required. Trained and experienced personnel such as John Verdin, Plant Manager (resigned 9/2003) and Jeff Corun, Hot Cell Manager have resigned during the past year and have not been replaced.
2. The inspection team identified numerous violations of the November 3, 2000 Montgomery County Circuit Court Order. Several of these violations are repetitive in nature and adequate corrective actions have still not been implemented.
3. NPI continues to release radioactive materials into the environment in an uncontrolled manner. The dry pond and adjacent areas are contaminated with concentrations of cobalt-60 that exceed regulatory limits and corrective action has still not been implemented. During the inspection MDE Inspectors found two cobalt-60 particles on a residential property near the plant by. NPI conducts monthly surveys of residential properties within a one-kilometer radius of the plant, however they have not found any cobalt-60 contamination in the past two years.
4. Dickerson residents living near the plant are exposed to unnecessary levels of radiation caused by radioactive waste stored on site. NPI has missed many waste shipment deadlines. NPI still does not have a written plan or commitment from management to ship approximately 2500 curies of radioactive waste by the August 2004 deadline. NPI estimates the highest radiation exposure to a member of the general public to be (46 millirem above background) cause by radiation that is emitted from the dry waste storage buildings.
5. NPI has still not submitted an adequate decommissioning plan or waste disposal

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Plan prepared in accordance with licensed waste shipment criteria and State Regulations. NPI's position on this issue is clear, documented and on file with the Department. NPI does not intend to comply until a compromise is reached with the Department or the requirements are changed.

6. NPI management and their Health Physics Consultant have not been effective in correcting ongoing violations and concerns. Most of these violations and concerns are not being addressed in either the monthly radiation protection audits or the annual review of the radiation protection program-content and implementation. The monthly audits often address issues unrelated to problems at the Dickerson facility and appear to provide only a minimal improvement to the radiation safety program at NPI.
7. NPI continues to own, store, possess cobalt-60 sources and waste under a court order-permanent injunction without an approved waste disposal plan and an approved decommissioning plan. In addition, NPI continues to acquire teletherapy sources (for profit) and ship them to Southwest Research in San Antonio Texas for storage thereby avoiding disposal costs. NPI continues to acquire depleted uranium (for profit) and store this licensed material at a NRC licensed facility in West Virginia, once again, avoiding disposal costs. Furthermore, NPI still has not implemented corrective actions necessary to comply with ongoing violations regarding waste disposal, soil concentration limits, radiation levels, releases of radioactive material, financial assurance for decommissioning and license termination. NPI has missed numerous Court Ordered radioactive waste shipment deadlines. In a 2/6/2004 letter to the Department, Jackson Ransohoff states that it is potentially possible, but unlikely, that NPI will be able to perform the required actions under the restraints imposed by MDE's rigorous enforcement of Section C.29 (g)(2) and the contested license conditions. NPI has still not taken the first steps necessary to comply with Section C.29. Section A.16 (a)(1) titled, "Deliberate Misconduct" prohibits a licensee, an employee of a licensee from engaging in deliberate misconduct that causes a licensee to be in violation of any rule, regulation, order or any term, condition or limitation of a license issued by the Department. Section A.16(c) describes deliberate misconduct to by a person to be an intentional act or omission that a person knows, would cause a licensee to be in violation of any rule, regulation, order or any term, condition or limitation of any license issued by the Department. Section A.16 is a new regulation that became effective on October 27, 2003. NPI has a very contentious relationship with the Department. Over the years, the RHP has documented thousands of violations at NPI, which have resulted in a number of enforcement actions against the company. One of the apparent problems with NPI is that its President, Jackson A. Ransohoff, is unwilling comply with certain regulations that MDE has cited repeatedly, year after year. In addition, Jackson Ransohoff has refused to pay NPI's annual licensing fee. He has repeatedly stated that he will comply with only those regulations and requirements that make sense to him. The Inspection Team is concerned that Jackson Ransohoff may be in violation of Section A.16.

## DESCRIPTION OF VIOLATIONS

1. Section C.31 titled, "Specific Terms and Conditions of License", License Condition 22.B (2), requires, in part, that all soils, wherever found, contaminated by NPI licensed activities and exhibiting levels of cobalt-60 contamination exceeding 8 picocuries per gram above background must be removed by NPI and properly stored/disposed of as

radioactive waste. The Montgomery County Circuit Court Order-Civil Case 199036 (Montgomery County Circuit Court Order) dated November 3, 2000 requires NPI to comply with all of the current requirements of the applicable statutes, regulations and the provisions of the license. The Stipulation and Settlement of Civil Case No. 76639 in the Circuit Court of Montgomery County dated January 3, 1994 further required NPI to demonstrate compliance with these requirements by June 15, 1994.

Contrary to the above, NPI failed to remove cobalt-60 contaminated soil exceeding the above-specified limit. NPI failed to remove the contaminated soils from the areas exceeding the license limit. NPI has been in continuous violation of this requirement since May 23, 1989. For example, NPI still has not removed the soil contaminated with cobalt-60 from the adjacent railroad property to establish compliance with the 8.0 picocurie per gram concentration limit. Furthermore, monthly soil samples collected from the dry pond area and analyzed by NPI personnel in January, February, March, June, July, September and November, 2003 also exceeded this regulatory limit however, these soils were not removed. On March 4, 2004 MDE Inspectors collected 12 soil samples from the dry pond and adjacent areas. Results of laboratory analysis indicate soil concentration that range from 10-304 picocuries per gram. NPI has missed this June 15, 1994 deadline and continues to refuse to remediate this property.

2. Section D.101(a) titled, "Radiation Protection Programs" states that in addition to complying with all other provisions of these regulations, a licensee shall use all means to maintain radiation exposures and releases of radioactive material as low as reasonably achievable (ALARA). The Montgomery County Circuit Court Order requires NPI to comply with all of the current requirements of the applicable statutes, regulations and the provisions of the license.
  - a. Contrary to the above, NPI failed to use all means necessary to maintain releases of radioactive material as low as reasonably achievable. Specifically, NPI has failed to use means such as the adequate containment of radioactive materials, proper waste storage practices and regular shipments of radioactive waste, to a licensed repository. On March 4, 2003, MDE Inspectors collected 12 soil samples from the dry pond and adjacent areas that exceeded regulatory limits. Furthermore, MDE Inspectors identified two contaminated areas on a residential property. As a result, NPI is not maintaining control over their radioactive material and it is continuing to be released. In spite of curtailed source-manufacturing activities, NPI continues to release cobalt-60 into the environment in an uncontrolled manner. Contaminated areas of the LAA lack adequate containment and release pathways are not continuously monitored. NPI has refused to adequately clean these contaminated areas, remove contaminated soils, ship radioactive waste as required and install containment necessary to prevent uncontrolled releases of radioactive material.
  - b. Contrary to the above, NPI failed to use all means necessary to maintain radiation exposures to levels as low as reasonably achievable. Specifically, NPI failed to use means such as shielding of radioactive waste in storage and shipment of radioactive waste in accordance with license conditions. As a result, NPI employees and residents living near the plant are exposed to unnecessary levels of radiation emitted from the waste storage areas. NPI's position regarding ALARA is clear, documented and on file with the Department. NPI concludes

that as long as they comply with the NUREG 15.30 \$2,000 per man Rem criteria, they consider themselves to be incompliance with Section D.101 (a)-ALARA.

4. Section C.31 titled, "Specific Terms and Conditions of License" and License Condition 21.B requires that within 90 days of the issuance of the license, NPI must submit to the Department for approval a comprehensive plan for disposal of all low level radioactive wastes in accordance with those specifications defined in this condition. The Montgomery County Circuit Court Order requires NPI to comply with all of the current requirements of the applicable statutes, regulations and the provisions of the license.

Contrary to the above, NPI's low level radioactive waste plan was submitted to MDE on December 10, 1999; however, upon review it was found to be inadequate and as of this date a comprehensive plan acceptable to the Department has not been submitted. Deficiencies in the plan were discussed in a Departmental letter dated March 20, 2000, but NPI has not adequately responded to it. Specifically, the plan submitted by NPI did not include a waste shipment schedule that met the deadline described in License Condition 21.B.

5. Section C.29.(c)(2) titled, "Financial Assurance and Recordkeeping for Decommissioning" requires the licensee to submit a Decommissioning funding plan and financial assurance in accordance with dates and criteria set forth in this section. The Montgomery County Circuit Court Order requires NPI to comply with all of the current requirements of the applicable statutes, regulations and the provisions of the license.

Contrary to the above, NPI failed to provide an adequate decommissioning funding plan and financial assurance in accordance with the criteria set forth in this regulation On October 20, 2000 the RHP received NPI's Decommissioning Plan dated October 27, 2000, which included a planned schedule for radioactive waste shipments. The RHP has reviewed this plan and determined that it is inadequate because it did not demonstrate compliance with the current radioactive material license waste disposal criteria. Table 2.1 of this plan described a 12-year shipment schedule for only a small fraction of the total activity of current radioactive waste inventory. The plan did not describe the shipment schedule and protocol for the disposal of the contaminated soil in storage. All radioactive waste that was generated prior to August 1999 is required to be shipped for disposal by August 2004. NPI has been in continuous violation of this requirement since April 13, 1999 as upheld by the Maryland Court of Special Appeals Case No. 2338 filed September 19, 2001.

6. Section C.29(g)(2)titled Financial Assurance and Recordkeeping for Decommissioning" states that that no person shall receive, possess, use, transfer, own, or acquire radioactive material of a type described in paragraphs (a) and (b) of C.29 for more than 180 days following the dates prescribed in the section for submittal of a decommissioning funding plan or certification, if the decommissioning funding plan or certification has not been approved by the Agency. The Montgomery County Circuit Court Order requires NPI to comply with all of the current requirements of the applicable statutes, regulations and the provisions of the license

Contrary to the above, NPI has still not met the financial assurance requirements. Furthermore, NPI's decommissioning funding plan has not been approved by the Agency. Pursuant to NPI's failure to provide an adequate decommissioning funding plan, NPI has continued to possess, use, transfer, own, and acquire radioactive material of

a type described in paragraphs (a) after the April 13, 1999 deadline. NPI has been in continuous violation of this requirement since April 13, 1999. Since then, NPI has refused to initiate the steps necessary to decommission the facility in a timely, safe and predictable manner as required.

7. Section C.31 titled, "Specific Terms and Conditions of Licenses" and License Condition 21(B) prohibits NPI from storing radioactive waste in areas other than the main pool/canals for a period exceeding 2 years. The licensee failed to ship for disposal the following containers of radioactive waste in accordance with waste shipment requirements. The Montgomery County Circuit Court Order requires NPI to comply with all of the current requirements of the applicable statutes, regulations and the provisions of the license.

VIOLATION	TYPE OF WASTE	DATE GENERATED	SHIPMENT DUE DATE
A.	In-pool waste tubes	1/20/00	1/20/04
B.	Drum of metal & pumps	4/20/00	4/20/02
C.	Ruble & hot cell DAW	7/12/00	7/12/02
D.	HEPA filter	10/10/00	10/10/02
E.	DAW	4/20/01	4/20/03
F.	Box #3	4/28/01	4/28/03
G.	Box #88	4/20/01	4/20/03
H.	Box #90 DAW	4/28/01	4/28/03
I.	Box #SWRO5	6/6/01	6/6/03
J.	Box # 062298-2	6/6/01	6/6/03
K.	Box #110	6/6/01	6/6/03
L.	Box #FD-001 DAW	7/16/01	7/16/03
M.	Box #FD-002 DAW	7/16/01	7/16/03
N.	Resin from main pool	8/10/01	8/10/03
O.	Box # FD003 DAW	9/7/01	9/7/03
P.	Box # FD004 DAW	9/7/01	9/7/03
Q.	Box # FD005 DAW	10/10/01	10/10/03
R.	Box # FD006 DAW	11/30/01	11/30/03
S.	Box # FD007 DAW	11/30/01	11/30/03
T.	Box # FD008 DAW	11/30/01	11/30/03
U.	Contaminated soil	11/2000	11/2002

8. Section C.32 titled, "Expiration and Termination of Licenses and Decommissioning of Sites and Separate Buildings or Outdoor Areas" requires, in part, that each licensee shall either begin decommissioning its site, buildings and outdoor areas in accordance with Agency requirements or submit a decommissioning plan within 12 months when the licensee's right to operate has been terminated either by court action or by action of law or regulation. Section C.32(g)(1) requires a licensee to complete decommissioning as soon as practicable but no later than 24 months following the initiation of decommissioning. Section C.32(g)(2) requires the licensee to request license termination as soon as practicable but no later than 24 months following the initiation of decommissioning. The Montgomery County Circuit Court Order requires NPI to comply with all of the current requirements of the applicable statutes, regulations and the provisions of the license.

Contrary to the requirements of Section C.32, NPI's right to operate in accordance with the 01 license was terminated by the Maryland Court of Special Appeals in December 2001. NPI failed to

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submit a decommissioning plan in paragraphs (f) and (g) of these regulations. Furthermore, NPI has not begun to decommission the site, buildings and outdoor areas. Finally, NPI has still not submitted a decommissioning plan in accordance with the criteria specified in paragraphs (f) and (g).

9. COMAR 26.12.03.02 paragraph E titled, Annual Fees for Licenses to Possess or Use Radioactive Materials requires a person with a license to possess or use radioactive material to pay to the Department an annual licensing fee in accordance with a fee schedule set forth in Regulation .03C of this chapter. The fee shall be paid on or before the first day of the month in which the anniversary of the license date occurs. The Montgomery County Circuit Court Order requires NPI to comply with all of the current requirements of the applicable statutes, regulations and the provisions of the license.

Contrary to the above, NPI has failed to pay their annual licensing fee. Although the Maryland Court of Special Appeal terminated NPI's ability to operate under this radioactive materials license, the payment of the annual fee is required until the facility is decommissioned and the license is terminated in accordance with the criteria specified in Section C.32 titled, "Expiration and Termination of licenses and Decommissioning of Sites and Separate Buildings or Outdoor Areas."

#### **MISCELLANEOUS NOTES**

-NPI's annual reviews of the radiation protection program-content and implementation dated 6/30/2002 and 6/30/2003 do not address the ongoing violations that have been cited by MDE. The reports were not signed by the RSO.

-NPI monitors 62 employees using whole body monthly badges and quarterly TLDs provided by ICN-Global Dosimetry Solutions Inc (NAVLAP). During the year of 2002, 49 received no measurable exposure, 4 received 1-100 mRem, 3 received 100-300 mRem, 5 received 300-1000 mRem and 1 received 1.059 Rem. Collective exposure for 2002 was 4.13 person-Rem, a 71% decrease from 2001 because of the Court Order-Permanent Injunction.

-2003 Dosimetry-Whole Body Records: Danny Wineholt 552 mRem, Matt Repp 634 mRem, Dick Demory 530 mRem.

-In accordance with J.11 (e), NPI sent individual monitoring reports to 11 terminated employees during the year 2003. Among the employees who resigned were Jeff Corun, Hot Cell Manager and John Verdin, Plant Manager.

-NPI monitors 25 locations on the perimeter of the facility. The maximum annual exposure was 286 in the dry pond. No location exceeded or approached the 500 mRem per year limit.

-Whole Body Counting, 9 employees who are authorized to work in the LAA were counted. All were less than MDA (2 nCi). The ALI for class Y cobalt-60 is 30,000 nCi. There were no ingestions or inhalations during the years 2002 and 2003. NPI recently purchased a Whole Body Counter from Helguson. Counting was conducted at the Beallsville Fire Department and the unit is stored at the USNRC licensed DU Waste Storage Facility in Ranson, West Virginia.

-NPI monitors several residential homes continuously with TLDs, collects data and adequately demonstrated compliance with the 100 mRem per year dose limit for individual members of the public by measurement and calculation. NPI estimates that the highest exposed member of the general public received 46 mRem for the year of 2002 from radiation that is emitted from the waste storage rooms.

-NPI test pool water activity, pH and conductivity on a weekly basis. Conductivity ranged between 1.5 and 3.5 uohms/cm. The pH ranged between 4.9 and 5.76.

-Residential Homes-Continuous Monitoring Results for the year of 2003, Fisk 134 mRem outside, Fisk 65 mRem inside, Carter 145 mRem outside, Carter 128 mRem inside.

-NPI reports that the internal exposure to the most likely cohort from airborne release from the hot cell exhaust is less than 1 mRem CEDE as determined by the EPA's Comply program.

-NPI reports the disposal of 306, 000 gal sewage to WSSC for the year 2002, 1.86 E-6 uCi/ml. No monthly average exceeded 3.0 E-5 uCi/ml.

-NPI's maximum perimeter monitors for 2003 were #2013 Left Fence by Rail Road 256 mRem and 32019 Dry Pond 253 mRem.

-NPI conducts monthly surveys of residential properties located within a 1 kilometer radius of the plant. No activity was detected in the years 2003 and 2003.

-NPI Soil Sample Data-List of Samples that exceeded the 8 pCi per gram limit

1/31/2003	85.8 pCi/gram	Dry Pond
2/23/2003	23.8 pCi/gram	Dry Pond
2/23/2003	13.2 pCi/gram	Dry Pond
2/23/2003	12.4 pCi/gram	SS1
3/20/2003	8.0 pCi/gram	N1
3/20/2003	19.8 pCi/gram	N2
6/3/2003	18.7 pCi/gram	Dry pond
6/18/2003	30.6 pCi/gram	SS1
7/30/2003	31.4 pCi/gram	Dry Pond
7/30/2003	30.4 pCi/gram	Dry Pond
9/26/2003	9.6 pCi/gram	SS1
11/6/2003	12.7 pCi/gram	Dry Pond

-NPI did not conduct Dry Pond remediation activities during the year 2003 or year to date 2004.

-On 7/11/2002, NPI removed 55 gal soil, 115-188 pCi/gram range from dry pond area.

-On 7/23/2002, NPI removed 40 gal soil, 124-216 pCi/gram range from dry pond area

-Drums of contaminated soil are stored outside, not protected from weather. Rusted lids are suspected.

-MDE Inspector Bob Nelson received 9 mRem, as determined by an SRD during the 2/23/2004 inspection of the LAA.

-Source Shipment/Receipt Log Notes

Received	11/2/2001	T-1238 6280 Ci 3/1/1992	Turkey
Shipped	4/19/2002	T-1455 4320 Ci 11/1/2002	Nietto/Foss
Shipped	4/19/2002	T-1521 6150 Ci 10/1/2001	Guatemala
Shipped	4/15/2002	T-1528 4500 Ci 4/1/2002	University of Arizona
Shipped	8/9/2001	T-1523 8610 Ci 9/1/2001	Rio
Shipped	3/22/2002	T-1535 4800 Ci 3/1/2002	University of Georgia
Shipped	3/22/2003	Not Documented in Notes	University of Alabama
Shipped	3/8/2002	T-1533 6630 Ci 3/1/2002	Brazil
Shipped	3/4/2002	T-1527 2250 3/1/2002	Peru
Received	11/14/2002	T-1210 1080 11/1/2001	University of Rochester

**ATTACHMENTS**

MDER Form E-1, Inspection Finding and Licensee Acknowledgement	3/4/2004
Inventory/Wipe Test For Sources in Dry Storage	3/9/2004
Monthly Cobalt-60 Inventory Record	1/15/2004
Laboratory Report-Soil Samples	4/16/2004
Laboratory Report-Pool Water Samples	3/5/2004
Laboratory Report-Wipe Survey of LAA	3/5/2004
Radioactive Waste-Dry Storage Log	4/10/2001-10/10/2001

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MARYLAND DEPARTMENT OF THE ENVIRONMENT  
Air and Radiation Management Administration  
Radiological Health Program

2500 Broening Highway  
Baltimore Maryland 21224  
(410) 631-3300

RADIOACTIVE MATERIAL  
INSPECTION FINDINGS AND LICENSEE ACKNOWLEDGEMENT

I. Licensee

Novion Products Inc.  
22301 Mt. Ephraim Rd.  
Dickerson MD 20842

II. License No.

MD-312-025-01

February 23 & 24, 2004

III. Date of Inspection March 4, 2004

IV. Inspection Findings and Licensee Action

The inspection was an examination of the activities conducted under your license as they relate to radiation safety and to compliance with the Code of Maryland (COMAR) 26.12.01 "Regulations for Control of Ionizing Radiation", and the conditions of your license. The inspection consisted of selective examinations of procedures and representative records, interviews with personnel, and observations by the inspector. The findings of this inspection are as follows:

- A. [ ] No current use or storage of licensed radioactive material (no program). The licensee was informed that upon receipt of radioactive material RHP must be notified.
- B. [ ] Issuance of an Agency E-1: Within the scope of the agency inspection no items of noncompliance or unsafe conditions were found. No action is required by the licensee.
- C. [ ] Issuance of an Agency E-2: Within the scope of the inspection, violations of minor significance were found. For any violation, corrective action must be immediately initiated. Within the 20 calendar days of your receipt of this notice you are to provide the Department with written statements of explanation describing:
  - (1) corrective steps which have been or will be taken by you, and the results achieved or anticipated; (2) corrective steps which will be taken to avoid further violations; and (3) the date when full compliance will be achieved. Such a statement or explanation must be provided or each of the items listed.
- D. [ ] Issuance of an Agency E-1 with a letter sent to the licensee further describing Agency requirements. For any violation, corrective action must be immediately initiated.

V. Licensee Acknowledgement

The Inspector has explained and I understand any items of noncompliance identified during this agency inspection. Furthermore, I acknowledge that, if an Agency E-2 Description of Violations was issued, failure to comply may result in the revocation, suspension or modification of the license and possible fines for each day the violations continue.

3/4/04

Date

Alan Johnson

RAM Inspector

Robert Nelson  
Managing Director

Licensee Representative - Title or Position

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## PHOTOGRAPHS

1. Main Pool
2. Courtyard From Parking Lot
3. Dumpster Without Lock on Hitch
4. Roof of LAA
5. Hot Cell Window and Manipulators
6. Main Pool and Canal
7. Hot Cell Monitors
8. North Canal Leak Detection System
9. North Waste Room Door
10. South Waste Room-Door Open
11. Courtyard-Drums of Contaminated Soil
12. South Waste Room
13. North Waste Room
14. South Waste Room Door
15. Postings on South Waste Room Door
16. Main Pool
17. Heat Exchanger Over Main Pool
18. LAA Roof
19. North Canal Dry Storage-Sand Pit

# NEUTRON PRODUCTS INC

22301 Mt. Ephraim Road, P.O. Box 68, Dickerson, MD 20842

301-349-5001 Fax: 301-349-2433

E-mail: neutronprod@erols.com

## FAX LEAD PAGE

Company: MDE Pages: 2 (incl Lead Pg.)  
To: RAY MANLEY From: JEFF WILLIAMS  
VIA Fax: 410-537-3198 Date: 3.9.04  
CC: REF NO: 04-117  
Re:

• Comments:

*REVISED WIPE TEST FORM  
INDICATING LOCATION OF  
ALL SOURCES.*

Neutron Products, Inc.

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**WIPE TEST RESULTS FOR RADIOACTIVE SOURCES IN DRY STORAGE**

Wipe tests for leakage or contamination of the sources identified below shall be conducted pursuant to COMAR 26.12.01.01 Sec. D.401 at intervals not to exceed 6 months.

**Certification**

On \_\_\_\_\_, I the undersigned conducted wipe tests and a physical inventory on the sources described below.

SOURCE (Co-60 unless otherwise indicated)	ACTIVITY	AS OF	LOCATION	REMovable ACTIVITY ( $\mu$ Cl)
M-498	9.88 mCi	6/1/90	LAA - Cabinet by pool	
NBS Std.	1.1 mCi	11/1/92	LAA - Cabinet by pool	
Tele. Can	0.5 $\mu$ Cl	11/1/92	LAA - HP Office	
Cs-137	9.5 mCi	2/23/84	LAA - Cabinet by pool	
Co-60 Check Source	.03 $\mu$ Cl	2/13/90	LAA - HP Office	
Navy Source	323 mCi	11/1/92	LAA - Next to cabinet	
CS-I	80 $\mu$ Cl	11/1/92	Dickerson I entry	
CS-II	80 $\mu$ Cl	11/1/92	Dickerson II entry	
Gammacell 220	228 Ci	11/97	Gammacell room	
USN Irradiator #1, Serial # GS-163	76.3 Ci	5/1/91	LAA - Red Condo #1	
USN Irradiator #2, Serial # GS-164	72 Ci	5/1/91	LAA - Red Condo #1	
USN Irradiator #4, Serial # 205	53 Ci	5/1/91	LAA - Red Condo #1	
Cal. Source USNC, CCOD-1E	28 mCi	1/2/96	LAA - Red Condo #2	
TECH/OPS Model 571, Source#S625	15.4 mCi	5/8/76	LAA - Cabinet by pool	

Notify the RSO immediately, if any wipe exceeds 0.005  $\mu$ Cl or if any of the above sources can not be located.

Signature

Date

**CONFIDENTIAL**

**neutron products inc**

22301 Mt. Ephraim Road, P. O. Box 68  
Dickerson, Maryland 20842 USA  
301-349-5001 FAX: 301-349-2433  
e-mail: neutronprod@erols.com

January 15, 2004

Mr. Roland Fletcher  
Radiological Health Program  
Maryland Department of the Environment  
1800 Washington Blvd.  
Baltimore, MD 21230

Via Fax: 410-537-3198

\*\*\* Original to be mailed \*\*\*

Dear Mr. Fletcher,

This letter is to update the monthly cobalt-60 inventory on the 01 license.

As of December 31, 2003, the inventory was 510,600 Ci. In addition, as of December 31, 2003, the radwaste inventories were:

Main Pool                  2376 Ci

North Canal II            93 Ci

Dry Storage                142 Ci

If you have any questions, or require additional information, please do not hesitate to contact us.

Sincerely,

Neutron Products, inc.

  
Edmond J. DeRosa  
Manager, Teletherapy Operations

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MARYLAND STATE DEPARTMENT OF HEALTH AND MENTAL HYGIENE  
 RADIATION LABORATORY REPORT  
 (410) 767-5537

SAMPLE SOURCE: Neutron Products Inc.COLLECTOR: R.K. NelsonSAMPLE TYPE: SoilCOLLECTION DATE: 03/04/04RECEIPT DATE: 03/05/04REPORT DATE: 03/16/04ANALYSES BY: Wise

v/v

<u>Lab. No.</u>	<u>Sample No.</u>	<u>Co-60 pCi/gram</u>	
2316	1	3.041 x 10E01 ± 2.005	304
2317	2	3.768 x 10E01 ± 1.603	37
2318	3	1.163 x 10E02 ± 7.599	116
2319	4	2.128 x 10E02 ± 7.953	212
2320	5	2.055 x 10E02 ± 1.009 x 10E01	205
2321	6	1.545 x 10E02 ± 5.758	154
2322	7	2.219 x 10E02 ± 1.205 x 10E01	221
2323	8	1.641 x 10E02 ± 6.228	164
2324	9	2.938 x 10E01 ± 1.964	29
2325	10	4.140 x 10E01 ± 1.803	41
2326	11	1.074 x 10E01 ± 1.319	10
2327	12	1.343 x 10E01 ± 7.948 x 10E-01	13
2328	13	8.171 x 10E03 ± 3.362 x 10E02	8171
2329	14	3.198 x 10E01 ± 1.286	31
2330	15	< 2.40	

\* (15) Draw a line

(alt-map)

farmes + sample

二

140 - 4005 + 001

33,000 C. P. M.

14  
dram

2 32mm Hg 10 32mm Hg

1

① member

6

⑧ 60 m²/m³

(2) 31 Mar 1966

14  
Jan R. H.

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100

198

Rock S ⑤ rocky

④ *lungs*

o o o (6) rokela

三

Draim

Newton Products

Parking Lot

MARYLAND STATE DEPARTMENT OF HEALTH AND MENTAL HYGIENE  
RADIATION LABORATORY REPORT  
(410) 767-5537SAMPLE SOURCE: Neutron Products Inc.COLLECTOR: R.K. NelsonSAMPLE TYPE: SoilCOLLECTION DATE: 03/04/04RECEIPT DATE: 03/05/04REPORT DATE: 03/16/04ANALYSES BY: Wise

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2330	15	< 2.40

ORIGINAL

STATE OF MARYLAND  
DHMH-Laboratories Administration  
Division of Environmental Chemistry  
**RADIATION LABORATORY**

201 W. Preston Street, Baltimore, Maryland 21201  
*J. Mehser Joseph, Ph.D., Director*

## **LABORATORY ANALYSIS REQUEST**

Date: 2/27/04 Collector: Bob Nelson

Phone: 410 537-4421 Fax: 410 537-3198 Number of samples: 7

Sample Type: wipes Collection date & time 2/23/04 1030

Sample Source: Neutron Products Inc

Comments: Inside Cont'd Access Area  
Wipes samples were received wet 02/27/04 Cen

**List of Radionuclides Requested:**

Date Received: 6/27/04 Date Reported: 3/5/04

Analyst: Watty Lab Supervisor: S. Ullise

ORIGINAL

MARYLAND STATE DEPARTMENT OF HEALTH AND MENTAL HYGIENE  
 RADIATION LABORATORY REPORT  
 (410) 767-5537

SAMPLE SOURCE: Neutron Products Inc.COLLECTOR: R.K. NelsonSAMPLE TYPE: WipeCOLLECTION DATE: 02/23/04RECEIPT DATE: 02/27/04REPORT DATE: 03/05/04ANALYSES BY: WattyL. WiseActivity ( $\times 10^{-6}\mu\text{Ci}/\text{wipe}$ )Lab. No.Co-60

2209	Non Detectible
2210	$101 \pm 10.1$
2211	$23.5 \pm 3.0$
2212	Non Detectible
2213	$403.2 \pm 18.7$
2214	$318.3 \pm 21.5$
2215	$62.4 \pm 5.0$

pool railing Main - 0  
 pool floor side - 222 DPM  
 south canal floor - 50 DPM  
 pool railing canal - 886 DPM \*
 hot cell door - 700 DPM \*  
 floor by hot cell door  
 floor by tool room - 136 DPM

RKN

Note: All samples were received with part of envelope wet. These samples were in the same bag as the water sample collected from the Main Pool. The lab found activity in the Main Pool sample. Each sample was placed in a clean envelope before analysis. The lab cannot confirm the validity of the results for each sample.

MARYLAND STATE DEPARTMENT OF HEALTH AND MENTAL HYGIENE  
RADIATION LABORATORY REPORT  
(410) 767-5537

SAMPLE SOURCE: Neutron Products Inc.COLLECTOR: R.K. NelsonSAMPLE TYPE: WaterCOLLECTION DATE: 02/23/04RECEIPT DATE: 02/27/04REPORT DATE: 03/05/04ANALYSES BY: Watty*S. Watty*

<u>Lab. No.</u>	<u>Location</u>	<u>Co-60 (x 10E-06<math>\mu</math>Ci/ml)</u>	<u>Co-60 (x 10E-06<math>\mu</math>Ci/Liter</u>	<u>Conductivity (<math>\mu</math>mhos/cm)</u>	<u>pH</u>
2216	Main Pool	3.6076 ± 0.2244		2.15	6.5*
2217	North Pool		20379 ± 1118	2.13	6.5*

\* Note: The pH results are not valid because tests were performed in Lab; pH should be done at time of collection.

*ORIGINAL*

4-10-01 BOX # 34 16 CU.FT DAW 67 LBS SC  
 SHIPPED TO: ATG DATE: 6-01  
 200 mr/hr CONTACT  
 30 mr/hr @ 1 FT

BOX # 35 16 CU.FT. DAW 7.5 LBS. SC  
 SHIPPED TO: ATG DATE: 6-01  
 8 mr/hr CONTACT  
 2 mr/hr @ 1 FT

BOX # 36 16 CU.FT. DAW 86 LBS. SC  
 SHIPPED TO: ATG DATE: 6-01  
 120 mr/hr CONTACT  
 44 mr/hr @ 1 FT

BOX # 37 16 CU.FT. DAW 48 LBS. SC  
 SHIPPED TO: ATG DATE: 6-01  
 300 mr/hr CONTACT  
 110 mr/hr @ 1 FT

4-20-01 BOX # 88 16 CU.FT. DAW 134 LBS. SC  
 SHIPPED TO: ATG DATE: 6-01  
 $\frac{1}{2}$  FULL WITH CEILING TILES SWR 7-16-01  
 15 mr/hr CONTACT

4-25-01 BOX # 89 16 CU.FT. DAW 67 LBS. SC  
 SHIPPED TO: ATG DATE: 6-01  
 2 mr/hr CONTACT

4-28-01 BOX # 90 16 CU.FT. DAW 80 LBS. SC  
 [REDACTED] mr/hr CONTACT [REDACTED]  
 30 mr/hr @ 1 FOOT SWR 7-16-01

5-9-01 BOX # 91 16 CU.FT DAW 114 LBS. BE  
 FROM INNERPACK # 3A DATED JAN. 1997  
 400 mr/hr CONTACT  
 125 mr/hr @ 1 FOOT SWR 7-16-01

ORIGINAL

6

5-9-01 21 BOX #92 DAW 16 CU FT 56 LBS. 51-1  
FROM INNERPACK # 34 DATED JAN 1997

SHIP DATE 35 MR/HR CONTACT  
8 MR/HR @ 1 FOOT

BC

5-9-01 BOX #93 16 CU. FEET DAW 42 LBS.

FROM INNERPACK # 9. DATED JAN 1997  
SHIP DATE 150 MR/HR CONTACT  
50 MR/HR @ 1 FOOT

BC

5-9-01 BOX #94 16 CU. FT. DAW 78 LBS.

FROM INNERPACK #9 DATED JAN. 1997

SHIP DATE 500 MR/HR CONTACT SWR 7-16-01  
75 MR/HR @ 1 FOOT

BC

5-10-01 BOX #95 16 CU. FT DAW 55 LBS.

FROM INNERPACK #9 DATED JAN. 1997

SHIP DATE 400 MR/HR CONTACT SWR 7-16-01  
95 MR/HR @ 1 FOOT

BC

5-10-01 BOX #96 16 CUFT. DAW 53 LBS.

FROM INNERPACK # 6 DATED JAN. 1997

SHIP DATE 500 MR/HR CONTACT SWR 7-16-01  
95 MR/HR @ 1 FOOT

BC

5-10-01 BOX #97 16 CU. FT DAW 48 LBS.

FROM INNERPACK #6 DATED JAN 1997

SHIP DATE 90 ME/HR CONTACT  
20 ME/HE @ 1 FOOT

BC

5/2/01 - (6) 1 1/2 inch waste tubes approx 1' each  
from DII SOURCES OUT OF TELE LEFTOVERS  
Put ATC main Pool

5-10-01 ~~SHIPPED TO: ATC 6-01~~ 16 cu FT DAW 67 LBS.  
~~DATE: FROM INNERPACK # 6~~  
~~DATED JAN. 1997~~

375 CONTACT  
85 @ 1 FT

BC

5-10-01 ~~SHIPPED TO: ATC 6-01~~ 16 cu FT DAW 92 LBS.  
~~FROM INNERPACK # 15~~  
~~DATE: DATED JAN. 1997~~  
170 MR/hr CONTACT  
40 MR/hr @ 1 FOOT BC

5-11-01 BOX #100 16 cu FT DAW 60 LBS.  
FROM INNERPACK # 15 SWR 7-16-01  
DATED JAN. 1997  
450 mr/hr CONTACT  
65 mr/hr @ 1 FOOT

6-6-01 BOX # SWR 05 16 cu FT DAW 65 LBS.  
FROM SOUTH WASTE ROOM SWR 7-16-01  
700 MR/hr CONTACT  
125 MR/hr @ 1 FOOT

6-6-01 BOX # SR 001 16 cu FT DAW 62 LBS.  
~~SHIPPED TO: ATC 6-01~~ FROM SOUTH WASTE ROOM NEW BOX  
~~DATE: 6-01~~  
4 R/hr CONTACT  
400 MR/hr @ 1 FOOT 101

8

ORIGINAL

6-6-01

# SR 4004 16 cu FT DAW 39 LBS  
SHIPPED TO: VITC DATE: 6-6-01  
FROM SOUTH WASTE ROOM

150 Mr/hr CONTACT

50 Mr/hr @ 1 FOOT

6-6-01

# b-72-98-1 16 cu FT DAW 97 LBS  
SHIPPED TO: VITC DATE: 6-6-01  
FROM SOUTH WASTE ROOM

150 Mr/hr CONTACT

10 Mr/hr @ 1 FOOT

6-6-01

# 101 16 cu FT DIAW 63 LBS  
SHIPPED TO: VITC DATE: 6-6-01  
FROM SOUTH WASTE ROOM

15 Mr/hr CONTACT

5 Mr/hr @ 1 FOOT

6-6-01

# 102 16 cu FT DIAW 104 LBS  
SHIPPED TO: VITC DATE: 6-6-01  
FROM SOUTH WASTE ROOM

200 Mr/hr CONTACT

65 Mr/hr @ 1 FOOT

6-6-01

# 98 16 cu FT DAW 59 LBS  
SHIPPED TO: VITC DATE: 6-6-01  
FROM SOUTH WASTE ROOM

725 Mr/hr CONTACT

3 Mr/hr @ 1 FOOT

6-6-01

# 82 16 cu FT DAW 58 LBS  
SHIPPED TO: VITC DATE: 6-6-01  
FROM SOUTH WASTE ROOM

200 Mr/hr CONTACT

35 Mr/hr @ 1 FOOT

- 6-6-01 #062298-2 16 CU FT DAW 78 LBS  
FROM SOUTH WASTE ROOM  
20 MR/HR CONTACT SWR. 7-16-01  
~~SHIPPED TO: VTC DATE: 6-6-01~~  
10 MR/HR @ 1 FOOT
- 6-6-01 Box #51507 16 CU FT DAW 45 LBS  
FROM SOUTH WASTE ROOM  
10 MR/HR CONTACT  
~~SHIPPED TO: VTC DATE: 6-6-01~~  
3 MR/HR @ 1 FOOT
- 6-6-01 Box #51502 16 CU FT DAW 39 LBS  
FROM SOUTH WASTE ROOM  
2 R/HR CONTACT  
~~SHIPPED TO: VTC DATE: 6-6-01~~  
3.5 MR/HR @ 1 FOOT
- 6-6-01 Box #51509 16 CU FT DAW 63 LBS  
FROM SOUTH WASTE ROOM  
200 MR/HR CONTACT  
~~SHIPPED TO: VTC DATE: 6-6-01~~  
80 MR/HR @ 1 FOOT
- 6-6-01 Box #104 16 CU FT DAW 62 LBS  
FROM SOUTH WASTE ROOM  
55 MR/HR CONTACT  
~~SHIPPED TO: VTC DATE: 6-6-01~~  
18 MR/HR @ 1 FOOT
- 6-6-01 Box #103 16 CU FT DAW 56 LBS  
FROM SOUTH WASTE ROOM  
115 MR/HR CONTACT  
~~SHIPPED TO: VTC DATE: 6-6-01~~  
11 MR/HR @ 1 FT
- 6-6-01 Box #070998-1 16 CU FT DAW 65 LBS  
FROM SOUTH WASTE ROOM  
30 MR/HR CONTACT  
~~SHIPPED TO: VTC DATE: 6-6-01~~  
13 MR/HR @ 1 FOOT

ORIGINAL

10

6-6-01 SHIPPED TO: ATG DATE: 105 16 cu FT DAW 70 LBS

6-6-01 SHIPPED TO: ATG DATE: 106 65 Mr/hr CONTACT  
20 Mr/hr @ 1 FOOT

6-6-01 SHIPPED TO: ATG DATE: 106 16 cu FT DAW 55 LBS  
3 Mr/hr CONTACT  
1 Mr/hr @ 1 FOOT

6-6-01 SHIPPED TO: ATG DATE: 107 16 cu FT DAW 47 LBS  
9 Mr/hr CONTACT  
3 Mr/hr @ 1 FOOT

6-6-01 SHIPPED TO: ATG DATE: 108 16 cu FT DAW 62 LBS  
5 Mr/hr CONTACT  
2 Mr/hr @ 1 FOOT

6-6-01 SHIPPED TO: ATG DATE: 109 16 cu FT DAW 22 LBS  
250 Mr/hr CONTACT  
40 Mr/hr @ 1 FOOT

6-6-01 SHIPPED TO: ATG DATE: 110 16 cu FT DAW 61 LBS  
2000 Mr/hr CONTACT  
250 Mr/hr @ 1 FOOT SUR 6-01

6-6-01 SHIPPED TO: ATG DATE: 112 16 cu FT DAW 39 LBS  
350 Mr/hr CONTACT  
120 Mr/hr @ 1 FOOT

6-12-01	<del>BOX # 111 SHIPPED TO: VAG DATE: 6-12-01</del>	12 cu. FT DAW - LEAVES - 6 FILTERS From DI-DI + main Pool 6-8-01 charge 95 mr/hr CONTACT 30 mr/hr @ 1 FT
6-8-01	<del>BOX # 112 SHIPPED TO: VAG DATE: 6-8-01</del>	12 cu. FT DAW 58 LBS 110 mr/hr CONTACT 30 mr/hr @ 1 FT
7-16-01	# FD-001	8 cu. FT DAW FILTERS <sup>U-MAIN</sup> (POOL) 88 LBS. 50 mr/hr CONTACT (bottom) 4 mr/hr @ 1 FOOT (SWR)
7-16-01	# FD-002	8 cu. FT DAW From behind cell 8.5 LBS. 450 mr/hr CONTACT (TOP) 100 mr/hr @ 1 FOOT (SWR)
8-10-01		3 cu. FT OF RESIN From main Pool containing 1 CURIE OF CO <sup>60</sup> IN WHITE SHEILD # 14 (SWR)
9-7-01	FD003	8 cu. FT DAW 84 LBS. 140 mr/hr CONTACT 11 mr/hr @ 1 FOOT (SWR)
9-7-01	FD004	8 cu. FT DAW 6.5 LBS. 13 mr/hr CONTACT 4 mr/hr @ 1 FOOT SWR
10-10-01	FD005	8 cu. FT DAW 72 LBS 100 mr/hr CONTACT 10 mr/hr @ 1 FOOT (SWR)